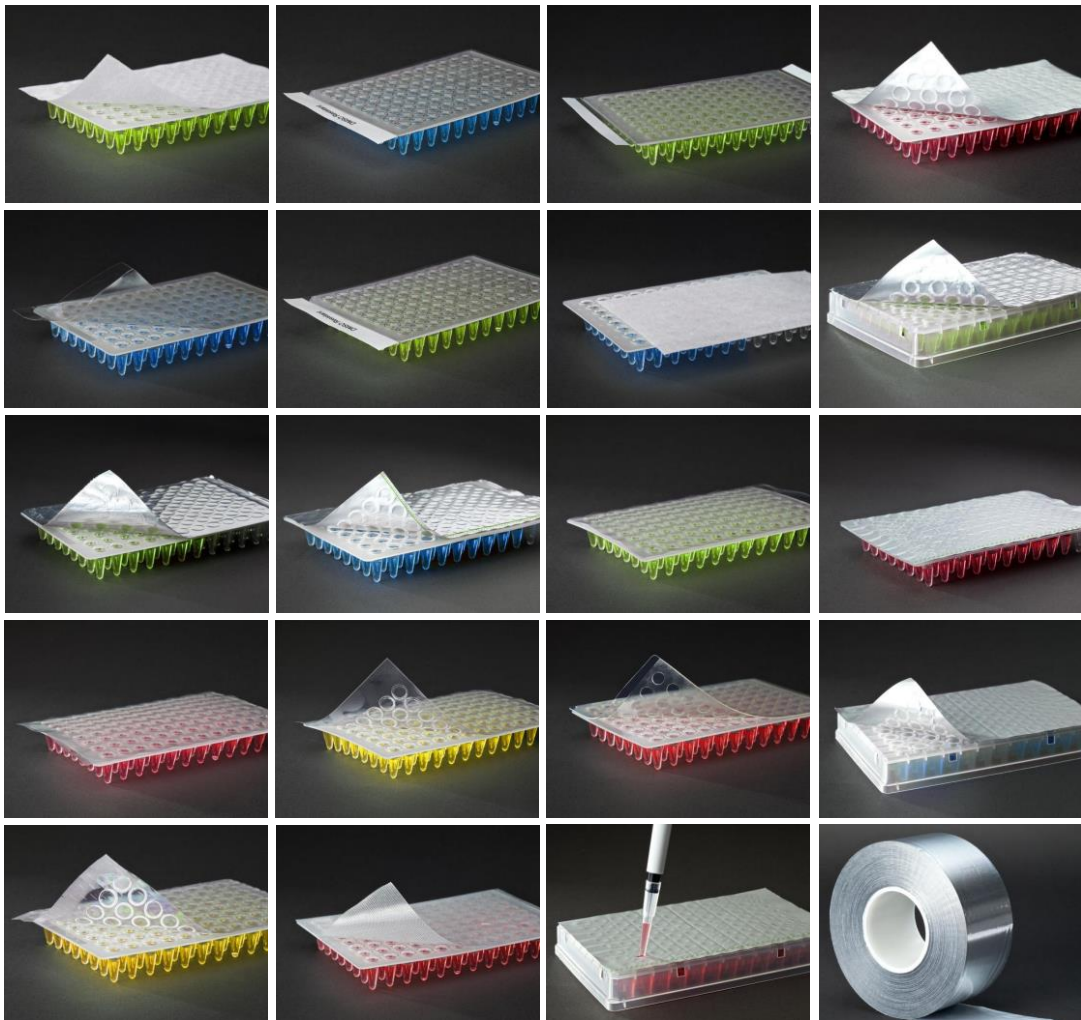


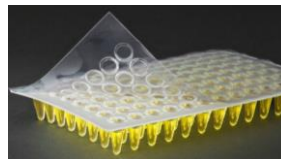
## Sealing Foils & Films 2021



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#### Adhesive Seals

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<b>Description</b>	A clear film with good optical clarity and moderate solvent resistant properties. The film is peel-able and non-pierceable.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10101-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10101-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10101-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>350m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10101-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>350m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10101-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10101-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10101-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10101-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10101-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10101-078LR	** Std	LabRoll™	1 Roll	500m	x	78mm	9095-10101-078SR	** Sterile	LabRoll™	1 Roll	500m	x	78mm	9095-10101-115LR	*** VII Std	LabRoll™	1 Roll	350m	x	115mm	9095-10101-115SR	*** Sterile VII	LabRoll™	1 Roll	350m	x	115mm	9095-10101-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10101-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10101-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10101-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10101-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) and Cyclic Olefin Copolymer (COC) plates.																																																															
<b>Application</b>	qPCR, short term compound storage.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -80°C to 80°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 180° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															

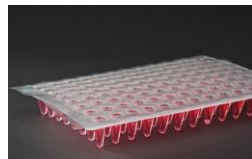
**Specifications**

<b>Visual Description</b>	Clear and thick plastic seal. Sealing surface on inside of roll and is less reflective.
<b>Physical Properties</b>	Flexible plastic, difficult to crease, upper surface feels very smooth, sealing side has a slight rough feel. Temperature Range: -80°C to +80°C.

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details: 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass</b> Details: Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details: Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details: Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b> Details: Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A strong, clear bonding film which is ideal for water thermal cyclers. The film has good optical clarity is solvent resistant and has a permanent seal. It is nonpierceable and non peelable.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10102-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10102-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10102-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10102-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10102-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10102-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10102-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10102-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10102-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10102-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm	9095-10102-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm	9095-10102-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm	9095-10102-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm	9095-10102-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10102-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10102-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10102-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10102-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	A Permanent seal to Polypropylene (PP)																																																															
<b>Application</b>	qPCR, PCR, (water bath thermal cycling), storage, sample inspection, disposal of hazardous materials, use with DMSO.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -80°C to 110°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															

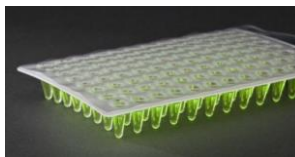
**Specifications**

<b>Visual Description</b>	Very clear and thick plastic seal. The seals two sides are very similar, so care must be taken when sealing.
<b>Physical Properties</b>	Flexible plastic, not easily creased upper feels very smooth, sealing surface on inside of roll and feels rougher to the touch. Temperature Range: -80°C to +110°C.

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: N/A</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details: Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene (PP)</b> Details: Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A clear heat-seal film which is ideal for use with ABI 3730 sequencer. The film has good optical clarity and moderate solvent resistance, it is non-peel-able and pierceable.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10103-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10103-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10103-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10103-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10103-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10103-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10103-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10103-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10103-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10103-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm	9095-10103-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm	9095-10103-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm	9095-10103-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm	9095-10103-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10103-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10103-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10103-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10103-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) and Cyclic Olefin Copolymer (COC) plates.																																																															
<b>Application</b>	Recommended for use with the Abi 3730 Sequencer as the thinner structure pierces more easily																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -80°C to 80°C or 110°C with pressurised PCR heated lids.																																																															
<b>Sealing</b>	Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															

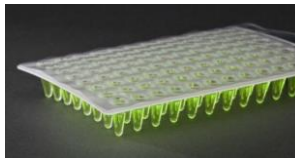
### Specifications

<b>Visual Description</b>	Clear and thick plastic seal. Sealing surface on inside of roll and is less reflective.
<b>Physical Properties</b>	Flexible plastic, difficult to crease, upper surface feels very smooth, sealing side has a slight rough feel. Temperature range -80°C to 80°C or 110°C with pressurized PCR heated lids

### Test procedures

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: N/A</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene(PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b> Details: Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



**Description** Optically clear adhesive film, pressure activated adhesive, suitable for qPCR and other imaging techniques including crystallography.

**Ordering** 9095-10103-100M Lab Roll 1 Roll 80mm x 100 metres

**Application** qPCR.  
High degree of optical clarity for ease of read through.  
Little or no auto-fluorescence for a high degree of light transmission.  
Chemically inert extractables except at extreme pH.  
Adheres well to a wide range of substrates

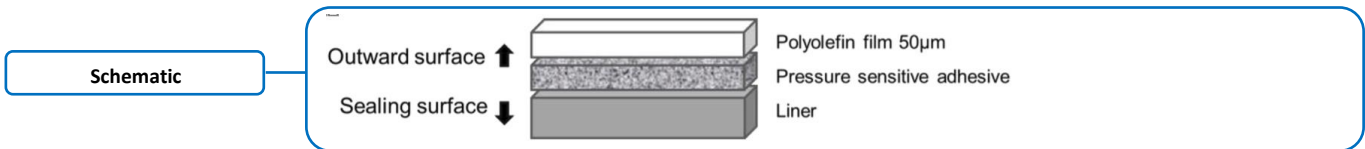
**Storage** Room temperature. Avoid direct exposure to light and high humidity

**Sealing** For all adhesive seals the best sealing results are achieved using a hand-held pressure roller.

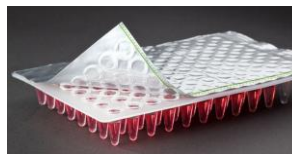
**Properties** Temperature range -80°C to 110°C with pressurised heated PCR Lid.

**Composition** Polyolefin film with pressure sensitive silicone adhesive and coated polyester film release liner. Non-tacky to skin and gloves

**Safety** Non-hazardous. This is a pressure seal. The adhesive is released when pressure is applied firmly and evenly to the seal.



**Note** Non-hazardous. This is a pressure seal. The adhesive is released when pressure is applied firmly and evenly to the seal.



<b>Description</b>	A peel-able, foil laminate heat-seal film which is suited for Polypropylene plates. The film has a good liquid barrier and moderate resistance to solvents. It is peel-able (from -80°C freezer) and is non-pierceable.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10104-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10104-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10104-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10104-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10104-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10104-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10104-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10104-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10104-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10104-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm	9095-10104-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm	9095-10104-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm	9095-10104-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm	9095-10104-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10104-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10104-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10104-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10104-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Application</b>	PCR, low temperature, short term compound storage, short term room temperature compound storage (less than 5 days).																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -80°C to 110°C																																																															
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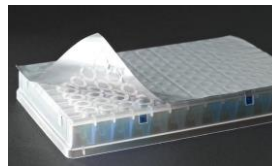
**Specifications**

<b>Visual Description</b>	Metallic with upper surface gloss white. Seal surface metallic burnished foil.
<b>Physical Properties</b>	Flexible, not easily creased. Temperature Range: -80°C to +110°C

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: N/A</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene(PP), welds to Polyethylene (PE) and certain Cyclo Olefin Copolymer (COC)</b> Details: Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A DMSO resistant foil laminate suited for Polypropylene plates, with a good liquid barrier and high solvent-resistance (at high temperatures). The seal is peel-able and non-pierceable.																																																															
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<b>Compatibility</b>	Polypropylene (PP) Plates.																																																															
<b>Application</b>	Low temperature and ambient temperature storage with DMSO and other solvents																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
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**Specifications**

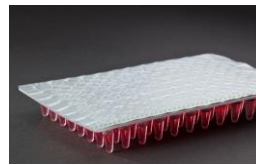
<b>Visual Description</b>	Upper glossy metallic surface. Sealing surface less reflective, more highly burnished and smoother.
<b>Physical Properties</b>	Flexible, not easily creased. Temperature Range: -80°C to +80°C.

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: N/A</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene (PP), certain Cyclo Olefin Copolymer(COC) plates, welds to Polyethylene (PE)</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.





<b>Description</b>	A pierceable foil seal with easy sealing surface identification and high solvent resistance including DMSO. The film is non-peelable, pierceable and re-sealing is permissible.																																																															
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS).																																																															
<b>Application</b>	Low temperature and ambient temperature storage with DMSO and other solvents. PCR, compound storage, sample shipping.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
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**Specifications**

<b>Visual Description</b>	Metallic reflective foil, with both sides appearing very similar. Dashed line denotes the upper surface.
<b>Physical Properties</b>	Very flexible foil, not easily creased. Temperature Range: -20°C to 120°C.

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer. Test Value = 4.49N
<b>Burst Testing</b>	<b>Determining the materials adhesion to the plate. Results Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene(PP), Polystyrene (PS)</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A pierceable A high grade foil with good solvent resistance including DMSO, easy sealing surface identification with multiple sealing and resealing properties. The seal is peel-able Polystyrene only and pierceable. foil seal with easy sealing surface identification and high solvent resistance including DMSO. The film is non-peel-able, pierceable and re-sealing is permissible.																																																															
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS).																																																															
<b>Application</b>	PCR low temperature compound storage, short term room temperature compound storage.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -20°C to 110°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															

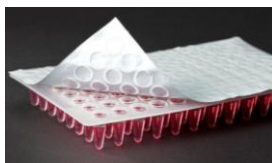
**Specifications**

<b>Visual Description</b>	Metallic reflective foil, with both sides appearing very similar. Printed line denotes upper surface.
<b>Physical Properties</b>	Very flexible foil, not easily creased. Temperature Range: -20°C to 110°C.

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Test Value = 7.22N. Equipment Instron 3343 Tensometer.
<b>Burst Testing</b>	<b>Determining the materials adhesion to the plate. Results Pass</b> Details Microplates are sealed and tested under pressure. Tests passed once achieved 2 bar of pressure or greater. Equipment Miniburst 5
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene(PP), Polystyrene (PS)</b> Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A strong bonding foil to Polypropylene which is ideal for water thermal cyclers. The foil has good solvent resistance including DMSO and is peel-able and non-pierceable.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10108-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10108-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10108-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>350m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10108-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>350m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10108-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10108-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10108-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10108-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10108-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10108-078LR	** Std	LabRoll™	1 Roll	500m	x	78mm	9095-10108-078SR	** Sterile	LabRoll™	1 Roll	500m	x	78mm	9095-10108-115LR	*** VII Std	LabRoll™	1 Roll	350m	x	115mm	9095-10108-115SR	*** Sterile VII	LabRoll™	1 Roll	350m	x	115mm	9095-10108-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10108-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10108-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10108-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10108-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS).																																																															
<b>Application</b>	PCR, specifically water thermal cyclers. Storage of solvents and other organics, including acids and alkaline. Long term storage. Transportation at low temperature.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -20°C to 110°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															

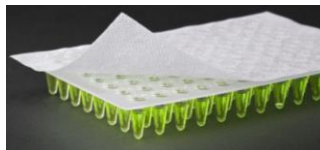
**Specifications**

<b>Visual Description</b>	Upper highly reflective metallic with a gloss finish. Seal side burnished metal, duller but still shiny, less reflective.
<b>Physical Properties</b>	Foil, thermal seal. Resistant to high and low temperatures. Thick, quite easy to crease but still flexible. Temperature Range: -200°C to +110°C.

**Test procedures**

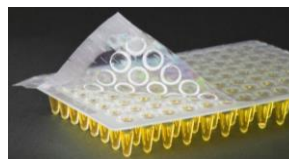
<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Fail</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Burst Testing</b>	<b>Determining the materials adhesion to the plate. Results Pass</b> Details Microplates are sealed and tested under pressure. Tests passed once achieved 2 bar of pressure or greater. Equipment Mini-burst 5
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene(PP), Polystyrene (PS)</b> Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	An opaque, non-woven porous and gas permeable film which acts as a barrier to solid contaminants. It seals to Polypropylene and Polystyrene plates. The seal is pierceable and peel-able, and not certified free from nucleases and DNA.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10110-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>200m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10110-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>200m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10110-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>200m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10110-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>200m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10110-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10110-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10110-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10110-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10110-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10110-078LR	** Std	LabRoll™	1 Roll	200m	x	78mm	9095-10110-078SR	** Sterile	LabRoll™	1 Roll	200m	x	78mm	9095-10110-115LR	*** VII Std	LabRoll™	1 Roll	200m	x	115mm	9095-10110-115SR	*** Sterile VII	LabRoll™	1 Roll	200m	x	115mm	9095-10110-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10110-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10110-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10110-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10110-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS).																																																															
<b>Application</b>	Short term incubation, agriculture and seed storage, insect storage, cell culture.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -20°C to 80°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 170° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															
<b>Specifications</b>																																																																
<b>Visual Description</b>	White non-woven. Seal side has a shiny lacquer coating																																																															
<b>Physical Properties</b>	Temperature Range: -20°C to +80°C. Compatibility: Polypropylene (PP), Polystyrene (PS)																																																															
<b>Test procedures</b>																																																																
<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: N/A</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.																																																															
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.																																																															
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A</b> Details Record the light transmission of a sealed microplate using a Fluorophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.																																																															
<b>Peel</b>	<b>Measuring the materials permance of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.																																																															
<b>Water Vapour Transmission</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Measure the weight loss of water during a set time at a set temperature and humidity Test Method: T30/001, Ref ASTM E-96-66, Target: 1800 g/m <sup>2</sup> /24h																																																															
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.																																																															
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene(PP), Polystyrene (PS)</b> Temperature and Dwell Time: 160°C, 2 seconds.																																																															

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A clear, perforated gas permeable film, suited for cell and seed culture, with good optical clarity and moderate solvent resistance. The seal is non peel-able.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10111-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10111-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10111-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10111-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10111-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10111-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10111-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10111-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10111-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10111-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm	9095-10111-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm	9095-10111-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm	9095-10111-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm	9095-10111-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10111-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10111-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10111-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10111-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) and Cyclic Olefin Copolymer (COC) plates.																																																															
<b>Application</b>	Short-term incubation, agriculture and seed storage, insect storage, cell culture.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -80°C to 80°C, or 110°C with pressurised PCR heated lids.																																																															
<b>Sealing</b>	Temperature and Dwell Time: 180° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															

**Specifications**

<b>Physical Properties</b>	Temperature Range: -80°C to +80°C or 110°C with pressurized PCR heated lids
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**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results: Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: N/A</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b> Details: Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A 60gsm Paper with a grid lacquer coating to give a smooth peel, the Seal is Porous, Gas Permeable and a Barrier to Solid Contaminants. It seals to Polypropylene and Polystyrene plates. The seal is pierceable and peel-able, and not certified free from nucleases and DNA.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10113-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10113-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10113-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10113-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10113-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10113-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10113-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10113-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10113-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10113-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm	9095-10113-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm	9095-10113-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm	9095-10113-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm	9095-10113-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10113-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10113-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10113-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10113-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS).																																																															
<b>Application</b>	Short term incubation, agriculture and seed storage, insect storage, cell culture.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -20°C to 80°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															

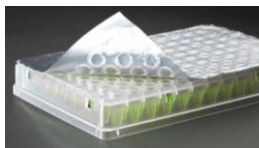
**Specifications**

<b>Visual Description</b>	Upper 60gsm paper. Seal side grid effect lacquer coating
<b>Physical Properties</b>	Temperature Range: -20°C to +80°C. Compatibility: Polypropylene (PP), Polystyrene (PS)

**Test procedures**

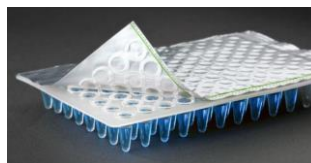
<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: N/A</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Porosity Bendsten</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Measure the defined volume of air forced through the material by specified pressure. Test Method: ISO3781, Units ml/min Target: 25
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene (PP) Polystyrene (PS) Cyclo Olefin Copolymer (COC)</b> Temperature and Dwell Time: 175°C, 2 seconds.

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A "stick to all" peel-able, foil laminate heat-seal film which is suited for all plate types - Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC). The film has a good liquid barrier and high resistance to solvents. It is peel-able (from -80°C freezer) and is non-pierceable. This seal has a white colour to the top aspect.																																																															
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10114-078LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10114-078SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>610m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10114-115LR</td> <td>*** VII Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10114-115SR</td> <td>*** Sterile VII</td> <td>LabRoll™</td> <td>1 Roll</td> <td>500m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10114-078LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10114-078SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10114-078TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>78mm</td> </tr> <tr> <td>9095-10114-115TR</td> <td>Trial</td> <td>LabRoll™</td> <td>1 Roll</td> <td>5m</td> <td>x</td> <td>115mm</td> </tr> <tr> <td>9095-10114-078TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>125mm</td> <td>x</td> <td>78mm</td> </tr> </table>	9095-10114-078LR	** Std	LabRoll™	1 Roll	610m	x	78mm	9095-10114-078SR	** Sterile	LabRoll™	1 Roll	610m	x	78mm	9095-10114-115LR	*** VII Std	LabRoll™	1 Roll	500m	x	115mm	9095-10114-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	x	115mm	9095-10114-078LS	* Std	LabSheet™	100 Sheets	125mm	x	78mm	9095-10114-078SS	* Sterile	LabSheet™	100 Sheets	125mm	x	78mm	9095-10114-078TR	Trial	LabRoll™	1 Roll	5m	x	78mm	9095-10114-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm	9095-10114-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS) & Cyclo Olefin Copolymer (COC) plates																																																															
<b>Application</b>	PCR, low temperature, short term compound storage, short term room temperature compound storage (less than 5 days).																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -80°C to 110°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 175° C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															
<b>Specifications</b>																																																																
<b>Visual Description</b>	Metallic with upper surface gloss white. Seal surface metallic burnished foil.																																																															
<b>Physical Properties</b>	Flexible, not easily creased. Thicker than IST-104. Temperature Range: -80°C to +110°C																																																															
<b>Test procedures</b>																																																																
<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance																																																															
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<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.																																																															
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution																																																															
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) and non-binding coated plates.</b> Temperature and Dwell Time: 175°C, 2 seconds.																																																															

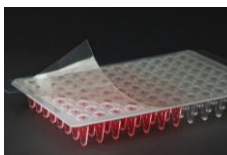
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<b>Description</b>	A "stick to all" surfaces, pierce-able foil seal with easy sealing surface identification and moderate solvent resistance. The film is peel-able and pierce-able.																																																															
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)																																																															
<b>Application</b>	PCR, compound storage, sample shipping.																																																															
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																																															
<b>Properties</b>	Temperature range -80°C to 80°C																																																															
<b>Sealing</b>	Temperature and Dwell Time: 180°C, 2 seconds Recommended sealing Equipment: * Efly, Kseal, 4s2 ** Wasp, ThermoALPS300/3000, Kube, Flexiseal, Chameleon, REMP (PHS) *** Agilent VII Plateloc, REMP (LHS/SHS)																																																															
<b>Specifications</b>																																																																
<b>Visual Description</b>	Metallic reflective foil, with both sides appearing very similar. Ensure correct surface is being used for sealing.																																																															
<b>Physical Properties</b>	Flexible foil, not easily creased. Temperature Range: -80°C to 80°C.																																																															
<b>Test procedures</b>																																																																
<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.																																																															
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.																																																															
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A</b> Details Record the light transmission of a sealed microplate using a Fluorophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.																																																															
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.																																																															
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.																																																															
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution																																																															
<b>Plate Types, Sealing Temp. Time Settings</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b> Temperature and Dwell Time: 175°C, 2 seconds.																																																															

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.





<b>Description</b>	A "stick to all" surfaces, pierce-able foil seal with easy sealing surface identification and moderate solvent resistance. The film is peel-able and pierce-able.																																			
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)																																			
<b>Application</b>	PCR																																			
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																			
<b>Properties</b>	Temperature range -20°C to 100°C																																			
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																																			

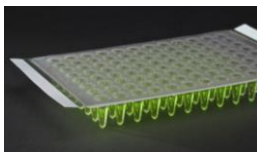
### Specifications

<b>Visual Description</b>	A transparent self-adhesive seal consisting of a PET backing and a modified acrylic adhesive.
<b>Physical Properties</b>	High holding power even at elevated temperatures. Superior converting performance due to strong PET backing and reduced adhesive mass flow. Temperature Range: -20°C to +110°C

### Test procedures

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass</b> Details Record the light transmission of a sealed microplate using a Fluorophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b>

## Adhesive Seals



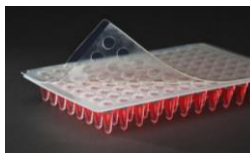
<b>Description</b>	An optically clear, DMSO resistant pressure sensitive seal which is suited for qPCR (96 or 384 well) fluorescence, crystallation, storage. A transparent non-tacky film which adheres only when pressure is applied. It is non-pierceable and peel-able.																																			
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10121-080LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>100m</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10121-080SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>100m</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10121-080LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>135mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10121-080SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>135mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10121-080TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>135mm</td> <td>x</td> <td>80mm</td> </tr> </table>	9095-10121-080LR	** Std	LabRoll™	1 Roll	100m	x	80mm	9095-10121-080SR	** Sterile	LabRoll™	1 Roll	100m	x	80mm	9095-10121-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm	9095-10121-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm	9095-10121-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)																																			
<b>Application</b>	qPCR (94 or 384 well) and situations where fluorescence is experienced and optical clarity is required.																																			
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																			
<b>Properties</b>	Temperature range -40°C to 100°C																																			
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																																			

### Specifications

<b>Visual Description</b>	Clear plastic, reflective, glossy on the top. Very thin and light and doesn't crease easily.
<b>Physical Properties</b>	Pressure sensitive adhesive tape, so the seal side doesn't feel sticky, mainly used for bonding materials to various substrates. Temperature Range: -40°C to +110°C.

### Test procedures

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b>



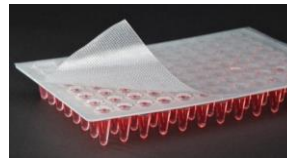
<b>Description</b>	A transparent film which is suitable for qPCR. The seal is non-pierceable, is peel-able and contains precise optical windows.																																			
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)																																			
<b>Application</b>	qPCR, fluorescence applications.																																			
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																			
<b>Properties</b>	Temperature range -20°C to 110°C																																			
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																																			

### Specifications

<b>Physical Properties</b>	Temperature Range: -20°C to +110°C
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### Test procedures

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.



<b>Description</b>	A transparent, perforated gas permeable film. The seal is perforated and permeable to gases. It is peel-able and pierce-able.																																			
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<b>Compatibility</b>	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)																																			
<b>Application</b>	Bacterial culture, Eukaryotic cell culture,																																			
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																			
<b>Properties</b>	Temperature range -20°C to 80°C																																			
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																																			

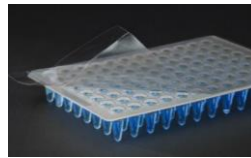
**Specifications**

<b>Visual Description</b>	Transparent, Perforated EVA medical Tape, Plastic, weave textured, with a cream coloured Liner.
<b>Physical Properties</b>	Single coated tape, consisting of a transparent, perforated, hypoallergenic coated, pressure sensitive acrylate adhesive. Temperature range: -20°C to +80°C

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solutions evaluated after 30 Cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permance of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Porosity Bendsten</b>	<b>Confirming the materials ability to resist low temperatures. Results: Pass</b> Details: MVTR, gms/m2/day. Air Porosity, Gurley 15 sec/100cc/Sq. in.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS) Cyclo Olefin Copolymer (COC).</b>

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A strong transparent adhesive film which is suitable for sample storage. The seal is non-pierceable and peel-able with a medium strength.																																			
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<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)																																			
<b>Application</b>	Sample Storage (aqueous), low cost cover for application like centrifugation.																																			
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																			
<b>Properties</b>	Temperature range -20°C to 80°C																																			
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																																			

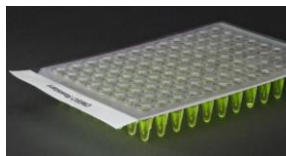
**Specifications**

<b>Visual Description</b>	Opaque, Thin, Plastic material.
<b>Physical Properties</b>	Polypropylene – PP – Top Coated, Gloss Clear TC PP

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b>

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



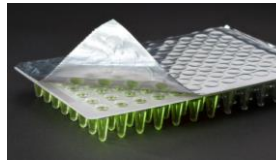
<b>Description</b>	A transparent film which is DMSO resistant. This film is peel-able with crosscuts over the wells making it ideal for auto samplers. It automatically cleans tips on extraction. Re-sealing onto the existing seal is permissible.																					
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10126-080LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>140mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10126-080SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>140mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10126-080TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>140mm</td> <td>x</td> <td>80mm</td> </tr> </table>	9095-10126-080LS	* Std	LabSheet™	100 Sheets	140mm	x	80mm	9095-10126-080SS	* Sterile	LabSheet™	100 Sheets	140mm	x	80mm	9095-10126-080TS	Trial	LabSheet™	5 Sheets	140mm	x	80mm
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<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)																					
<b>Application</b>	Sample access and retrieval for 96 well plates for use with auto samplers and sequencers.																					
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																					
<b>Properties</b>	Temperature range -40°C to 80°C																					
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																					

### Specifications

<b>Visual Description</b>	Clear plastic film with cross cuts over the wells.
<b>Physical Properties</b>	Temperature Range: -40°C to +80°C

### Test procedures

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permance of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polystyrene (PS)</b>



**Description** An adhesive, foil barrier film which is suited for PCR use. Manufactured from soft aluminium foil with acrylic adhesive. The seal has solvent resistance and can be removed, leaving behind no adhesive residue.

<b>Ordering</b>	9095-10127-080LR	** Std	LabRoll™	1 Roll	200m	x	80mm
	9095-10127-080SR	** Sterile	LabRoll™	1 Roll	200m	x	80mm
	9095-10127-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm
	9095-10127-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm
	9095-10127-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm

**Compatibility** Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

**Application** PCR and sample storage.

**Storage** Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

**Properties** Temperature range -40°C to 120°C

**Sealing** Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

**Specifications**

**Visual Description** Thin, Metallic, Reflective, White Liner.

**Physical Properties** Secures well at room temperature while conforming well to irregular surfaces and is suitable for use protecting materials quickly or at high temperature (180°C). Temperature Range: -40°C to +120°C.

**Test procedures**

**Mass Loss** **Confirming the materials ability to resist high temperatures. Results: Pass**  
Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

**Pierce** **Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass**  
Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

**Optical** **Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A**  
Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.

**Peel** **Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass**  
Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

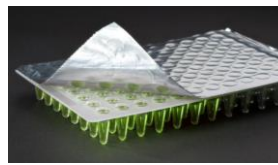
**Low Temperature Seal Test** **Confirming the materials ability to breath. Results: Pass**  
Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.

**Solvent** **Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass**  
Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

**Plate Types** Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.





<b>Description</b>	An adhesive, foil barrier film which is suited for PCR use. Manufactured from soft aluminium foil with acrylic adhesive. The seal has solvent resistance and can be removed, leaving behind no adhesive residue.																																			
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10129-080LR</td> <td>** Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>150m</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10129-080SR</td> <td>** Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>150m</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10129-080LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>135mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10129-080SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>135mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10129-080TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>135mm</td> <td>x</td> <td>80mm</td> </tr> </table>	9095-10129-080LR	** Std	LabRoll™	1 Roll	150m	x	80mm	9095-10129-080SR	** Sterile	LabRoll™	1 Roll	150m	x	80mm	9095-10129-080LS	* Std	LabSheet™	100 Sheets	135mm	x	80mm	9095-10129-080SS	* Sterile	LabSheet™	100 Sheets	135mm	x	80mm	9095-10129-080TS	Trial	LabSheet™	5 Sheets	135mm	x	80mm
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<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)																																			
<b>Application</b>	PCR and sample storage.																																			
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																			
<b>Properties</b>	Temperature range -40°C to 120°C																																			
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																																			

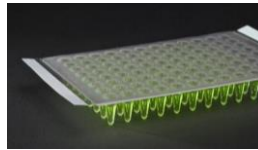
**Specifications**

<b>Visual Description</b>	Thin, Metallic, Reflective, White Liner.
<b>Physical Properties</b>	Secures well at room temperature while conforming well to irregular surfaces and is suitable for use protecting materials quickly or at high temperature (180°C). Temperature Range: -40°C to +120°C.

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b>

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	An optically clear, DMSO resistant pressure sensitive seal which is suited for qPCR (96 or 384well) fluorescence, crystallation, storage. A transparent nontacky film which adheres only when pressure is applied. It is pierceable and peelable. Good temperature and chemical resistance and withstands tough application environments. High Adhesion Strength.						
<b>Ordering</b>	9095-10130-080LR	Standard	LabRoll™	1 Roll	100m	x	80mm
	9095-10130-080SR	Sterile	LabRoll™	1 Roll	100m	x	80mm
	9095-10130-080LS	Standard	LabSheet™	100 Sheets	140mm	x	80mm
	9095-10130-080SS	Sterile	LabSheet™	100 Sheets	140mm	x	80mm
	9095-10130-080TS	Trial	LabSheet™	5 Sheets	140mm	x	80mm
	9095-10130-080TR	Trial	LabSheet™	1 Roll	5m	x	80mm
<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)						
<b>Application</b>	qPCR (94 or 384 well) and situations where fluorescence is experienced.						
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.						
<b>Properties</b>	Temperature range -40°C to 110°C						
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.						

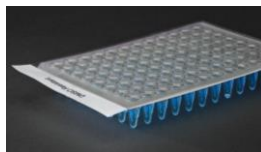
**Specifications**

<b>Visual Description</b>	Clear plastic, reflective, glossy on the top. Very thin and light and does not crease easily.
<b>Physical Properties</b>	Pressure sensitive adhesive tape, so the seal side does not feel sticky. Mainly used for bonding materials to various substrates. Temperature range: -40°C to +121°C

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180°C peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b>

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



<b>Description</b>	A transparent, optically clear, DMSO resistant, non-tacky film, which adheres only when pressure is applied. It is non-pierceable and peel-able.																																			
<b>Ordering</b>	<table border="1"> <tr> <td>9095-10131-080LR</td> <td>Std</td> <td>LabRoll™</td> <td>1 Roll</td> <td>100m</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10131-080SR</td> <td>Sterile</td> <td>LabRoll™</td> <td>1 Roll</td> <td>100m</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10131-080LS</td> <td>* Std</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>140mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10131-080SS</td> <td>* Sterile</td> <td>LabSheet™</td> <td>100 Sheets</td> <td>140mm</td> <td>x</td> <td>80mm</td> </tr> <tr> <td>9095-10131-080TS</td> <td>Trial</td> <td>LabSheet™</td> <td>5 Sheets</td> <td>140mm</td> <td>x</td> <td>80mm</td> </tr> </table>	9095-10131-080LR	Std	LabRoll™	1 Roll	100m	x	80mm	9095-10131-080SR	Sterile	LabRoll™	1 Roll	100m	x	80mm	9095-10131-080LS	* Std	LabSheet™	100 Sheets	140mm	x	80mm	9095-10131-080SS	* Sterile	LabSheet™	100 Sheets	140mm	x	80mm	9095-10131-080TS	Trial	LabSheet™	5 Sheets	140mm	x	80mm
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<b>Compatibility</b>	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)																																			
<b>Application</b>	Micro-plate sealing containing solvents including DMSO.																																			
<b>Storage</b>	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.																																			
<b>Properties</b>	Temperature range -40°C to 80°C																																			
<b>Sealing</b>	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.																																			

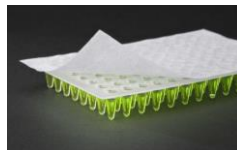
**Specifications**

<b>Visual Description</b>	A clear polypropylene DMSO resistant film, which is peel-able, but not pierceable.
<b>Physical Properties</b>	Temperature range: -40°C to +80°C

**Test procedures**

<b>Mass Loss</b>	<b>Confirming the materials ability to resist high temperatures. Results: Pass</b> Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.
<b>Pierce</b>	<b>Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A</b> Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.
<b>Optical</b>	<b>Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A</b> Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.
<b>Peel</b>	<b>Measuring the materials permanence of adhesion &amp; its ability to be removed, via extension measuring equipment. Results: Pass</b> Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180°C peel test. Equipment Instron 3343 Tensometer.
<b>Low Temperature Seal Test</b>	<b>Confirming the materials ability to breath. Results: Pass</b> Details: Microplates are sealed at specified low temperatures & subjected to a series of tests to substantiate seal integrity. Equipment: Laboratory Cold storage unit.
<b>Solvent</b>	<b>Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: Pass</b> Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.
<b>Plate Types</b>	<b>Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)</b>

QC testing is carried out to ensure that products are free from nucleases (DNases & RNases) as well as human genomic DNA. Although every effort is made, including cleanroom manufacture, to maintain this level of cleanliness, best laboratory practice with regards to duplicate testing should be followed.



**Description** The Seal is Porous, Gas Permeable and a barrier to solid contaminants.

<b>Ordering</b>	9095-10132-080LR	** Std	LabRoll™	1 Roll	150m	x	80mm
	9095-10132-080SR	** Sterile	LabRoll™	1 Roll	150m	x	80mm
	9095-10132-115LR	*** VII Std	LabRoll™	1 Roll	150m	x	80mm
	9095-10132-115SR	*** Sterile VII	LabRoll™	1 Roll	150m	x	115mm
	9095-10132-080LS	* Std	LabSheet™	100 Sheets	125mm	x	80mm
	9095-10132-080SS	* Sterile	LabSheet™	100 Sheets	125mm	x	80mm
	9095-10132-080TR	Trial	LabRoll™	1 Roll	5m	x	80mm
	9095-10132-115TR	Trial	LabRoll™	1 Roll	5m	x	115mm
	9095-10132-080TS	Trial	LabSheet™	5 Sheets	125mm	x	80mm

**Compatibility** Polypropylene (PP) Polystyrene (PS)

**Application** Short term Incubation, agriculture and seed storage, Insect storage and Cell Culture.

**Storage** Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within three years from date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight, in original packaging.

**Properties** Temperature range -20°C to 80°C

**Sealing** Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.

### Specifications

**Visual Description** White Rayon Nonwoven Tape on Liner

**Physical Properties** Temperature range: -40°C to +80°C

### Test procedures

**Mass Loss** **Confirming the materials ability to resist high temperatures. Results: N/A**  
 Details: Mass loss of solution evaluated after 30 cycles of 3 step PCR Programme. Equipment: ABI Thermocycler, Precision Balance.

**Pierce** **Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: Pass**  
 Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the surface & access the wells. Equipment Instron 3343 Tensometer.

**Optical** **Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results N/A**  
 Details Record the light transmission of a sealed microplate using a Fluorophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar

**Peel** **Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: Pass**  
 Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded after a 180° peel test. Equipment Instron 3343 Tensometer.

**Porosity Bendsten** **Confirming the materials ability to breath. Results: Pass**  
 Details: Moisture Vapour Transmission—4200gms/m<sup>2</sup>/24hrs

**Solvent** **Evaluating the materials resistance to solvents (DMSO used as an aggressive standard) Results: N/A**  
 Details Sealed plate is subjected to a high concentration of DMSO for a time period at low temperatures after which seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.

**Plate Types** **Polypropylene (PP) Polystyrene (PS)**



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