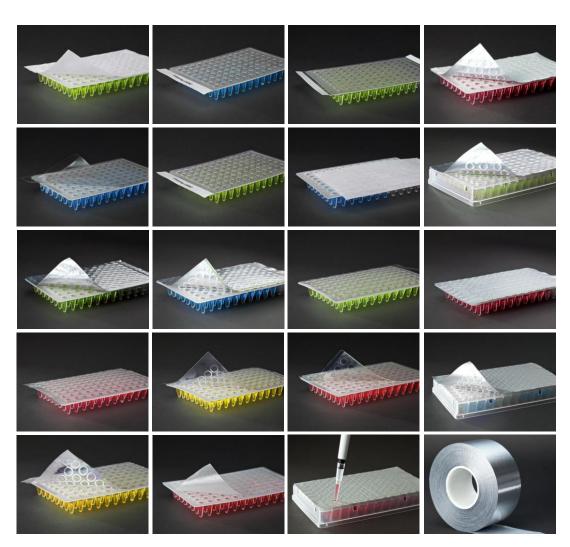


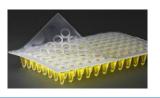
Sealing Foils & Films 2021





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9095-10101 Clear Seal Peel

	A clear film with good	l ontical clarity an	d moderate solve	nt resistant nroner	ties		
Description	The film is peel-able a			nt resistant proper	ties.		
	9095-10101-078LR	** Std	LabRoll™	1 Roll	500m	х	78mm
	9095-10101-078SR	** Sterile	LabRoll™	1 Roll	500m	X	78mm
	9095-10101-115LR	*** VII Std	LabRoll™	1 Roll	350m	х	115mm
	9095-10101-115SR	*** Sterile VII	LabRoll™	1 Roll	350m	х	115mm
Ordering	9095-10101-078LS	* Std	LabSheet™	100 Sheets	125mm	х	78mm
	9095-10101-078SS	* Sterile	LabSheet™	100 Sheets	125mm	х	78mm
	9095-10101-078TR	Trial	LabRoll™	1 Roll	5m	х	78mm
	9095-10101-115TR	Trial	LabRoll™	1 Roll	5m	х	115mm
	9095-10101-078TS	Trial	LabSheet™	5 Sheets	125mm	x	78mm
Compatibility	Polypropylene (PP), P Olefin Copolymer (CC		Polystyrene (PS) a	nd Cyclic			
Application	qPCR, short term com	npound storage.					
	Store in a cool place.	Avoid direct expo	sure to sunlight. It	is recommended	to use the se	als w	rithin three years from
Storage	date of purchase. Thr packaging.	ee years when sto	ored at 21°C (70°F)), 50% relative hum	nidity, out of	dired	t sunlight, in original
Properties	Temperature range -8	30°C to 80°C					
	Temperature and Dw	ell Time: 180° C 2	seconds Recomm	nended sealing			
Sealing	Equipment: * Efly, Ks				al		
Sealing	Chameleon, REMP (P				di,		
	Chameleon, Kelvir (F	ns) Agiletit vi	i Piateloc, KEIVIP (I	LПЭ/ЭПЭ/			
		Spec	cifications —				
Visual Description	Clear and thick plastic	seal. Sealing surfa	ace on inside of ro	ll and is less reflec	tive.		
Physical Properties	Flexible plastic, difficu Range: -80°C to +80°C		r surface feels vei	ry smooth, sealing	side has a sli	ght r	ough feel. Temperature
		Test p	orocedures _				
	Confirming the mater	ials ability to resis	st high temperatu	res. Results: Pass			
Mass Loss	Details: Mass loss of s				nme. Equipn	nent:	ABI Thermocycler,
	Precision Balance.						
	Measuring the force in equipment. Results: I		i standardised ne	eale through the h	nateriai via c	omp	ression measuring
Pierce		•	l noodlo oncuring	that loss than 10N	ic required t	to ni	erce the surface & acces
	the wells. Equipment	•		tilat less tilali 1010	is required t	to pie	erce the surface & acces
	tile trensi Equipment						
	Determining the mat	erials optical clari	ty by measuring t	he transmission of	f emissive dy	e thi	ough the material.
Optical	Results: Pass						
	Details: Record the lig reader. Equipment BN			ate using a Fluroph	ore dye stoc	k sol	ution and a microplate
	reader. Equipment bi	vid Labtech - Fluit	Stat				
	Measuring the mater	ials permanence	of adhesion & its	ability to be remo	ved, via exte	nsio	n measuring equipment
Peel	Results: Pass						
				r & Successful Pee	l are measur	ed &	recorded after a 180°
	peel test. Equipment	Instron 3343 Tens	ometer.				
	Confirming the mate	rials ability to resi	st low temperatu	res. Results: Pass			
Low Temperature	Details: Microplates a	•			o a series of	tests	to substantiate seal
Seal Test	integrity. Equipment:	•	•				
						_	II AI / A
	Evaluating the mater						
Solvent	· ·	-	-		-		emperatures after which
	seal damage & volum	e ioss are determ	inea. Equipment l	aporatory Cold sto	orage unit, DI	IVISO	solution.
Plate Types, Sealing	Polypropylene (PP), I	Polyethylana (DF)	Polyetyrone (DC)	Cyclo Olofia Cono	lymer (COC)		
Temp. Time Settings	Details: Temperature			, cyclo Olelin Copo	nymer (COC)		
. c.mp. mine sectings	Details. Telliperature	and Dwell Time: .	LIJ C, Z SECUIIUS.				

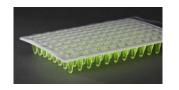




9095-10102 Clear Seal Weld

Description	A strong, clear bonding film v		•	m has good optic	al clarity is solvent		
	resistant and has a permaner 9095-10102-078LR ** St	d LabRoll™	1 Roll	610m x	78mm		
		erile LabRoll™	1 Roll	610m x	78mm		
		VII Std LabRoll™	1 Roll	500m x	115mm		
Oudovino		Sterile VII LabRoll™	1 Roll	500m x	115mm		
Ordering	9095-10102-078LS * Std 9095-10102-078SS * Ste		100 Sheets	125mm x	78mm 78mm		
	9095-10102-078SS * Ste 9095-10102-078TR Trial	rile LabSheet™ LabRoll™	100 Sheets 1 Roll	125mm x 5m x	78mm		
	9095-10102-078TK Trial	LabRoll™	1 Roll	5m x	115mm		
	9095-10102-078TS Trial	LabSheet™	5 Sheets	125mm x	78mm		
Compatibility	A Permanent seal to Polypro	pylene (PP)					
Application	qPCR, PCR, (water bath therr DMSO.	mal cycling), storage, sampl	e inspection, dispos	sal of hazardous r	naterials, use with		
Storage	Store in a cool place. Avoid d date of purchase. Three year packaging.						
Properties	Temperature range -80°C to	110°C					
Sealing	Temperature and Dwell Time Equipment: * Efly, Kseal, 4s2 Chameleon, REMP (PHS) ***	** Wasp, ThermoALPS300	/3000, Kube, Flexise	eal,			
		Specifications					
	Van alas and this alastic as	<u> </u>					
Visual Description	when sealing.	Very clear and thick plastic seal. The seals two sides are very similar, so care must be taken when sealing.					
Physical Properties	Flexible plastic, not easily cre touch. Temperature Range: -		oth, sealing surface	on inside of roll a	nd feels rougher to the		
		 Test procedures - 					
Mass Loss	Confirming the materials abi Details: Mass loss of solution Precision Balance.			mme. Equipment	: ABI Thermocycler,		
Pierce	Measuring the force required equipment. Results: N/A Details 5 tests run using a sta		_	-	_		
	the wells. Equipment Instron	3343 Tensometer					
	Determining the materials o	ptical clarity by measuring	the transmission o	f emissive dye th	rough the material.		
Optical	Results: Pass Details Record the light trans reader. Equipment BMG Labi	•	late using a Fluroph	ore dye stock sol	ution and a microplate		
	Measuring the materials per	rmanence of adhesion & its	s ability to be remo	ved, via extensio	n measuring equipment.		
Peel	Results: N/A Details Cohesive Failure, Adh test. Equipment Instron 3343		ar & Successful Pee	l are measured &	recorded after a 180° pee		
Low Tomporature	Confirming the materials ab	ility to resist low temperat	ures. Results: Pass				
Low Temperature Seal Test	Details: Microplates are seale integrity. Equipment: Labora	ed at specified low tempera		to a series of test	s to substantiate seal		
	3 , 1 1	, ,		atau di	-la BI /A		
Solvent	Evaluating the materials resing Details: Sealed plate is subject seal damage & volume loss a	cted to a high concentratio	n of DMSO for a tim	e period at low to	emperatures after which		
Plate Types, Sealing	Polypropylene (PP)						
Temp. Time Settings	Details: Temperature and Dv	vell Time: 175°C, 2 seconds					

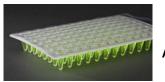




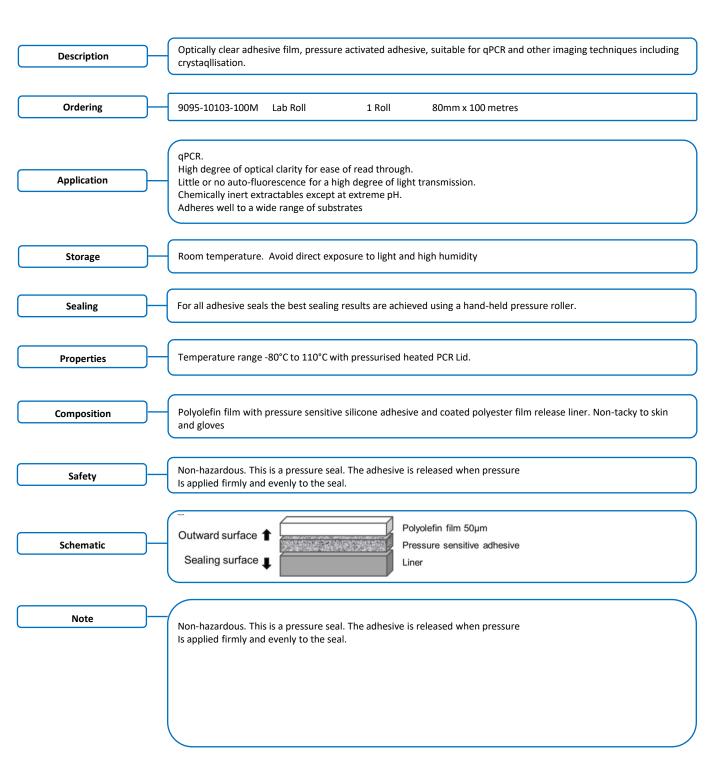
9095-10103 Clear Seal Pierce

Description	A clear heat-seal film solvent resistance, it is			sequencer. The fil	m has good o	optical clarity and moderate
Ordering	9095-10103-078LR 9095-10103-078SR 9095-10103-115LR 9095-10103-115SR 9095-10103-078LS 9095-10103-078SS 9095-10103-078TR 9095-10103-115TR 9095-10103-078TS	** Std ** Sterile *** VII Std *** Sterile VII * Std * Sterile Trial Trial Trial	LabRoll™ LabRoll™ LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabRoll™ LabRoll™ LabRoll™	1 Roll 1 Roll 1 Roll 1 Roll 1 Roll 100 Sheets 100 Sheets 1 Roll 1 Roll 5 Sheets	610m 610m 500m 500m 125mm 125mm 5m 5m	x 78mm x 78mm x 115mm x 115mm x 78mm x 78mm x 78mm x 115mm x 78mm
Compatibility	Polypropylene (PP), Po (COC) plates.	olyethylene (PE),	Polystyrene (PS) a	nd Cyclic Olefin Co	polymer	
Application	Recommended for use	e with the Abi 373	30 Sequencer as th	ne thinner structur	e pierces mo	re easily
Storage	·	•	•			als within three years from direct sunlight, in original
Properties	Temperature range -8	0°C to 80°C or 11	0°C with pressuris	ed PCR heated lids		
Sealing	Temperature and Dwo Equipment: * Efly, Kse Chameleon, REMP (Ph	eal, 4s2 ** Wasp,	ThermoALPS300/	3000, Kube, Flexise	al,	
		Spec	ifications —			
Visual Description	Clear and thick plastic	seal. Sealing surfa	ace on inside of ro	ll and is less reflec	tive.	
Physical Properties	Flexible plastic, difficu range -80°C to 80°C or				side has a slig	ght rough feel. Temperature
		——— Test p	rocedures —			
Mass Loss	Confirming the materi Details: Mass loss of so Precision Balance.				mme. Equipm	ent: ABI Thermocycler,
Pierce	equipment. Results: P	ass ng a standardised	needle, ensuring	_		ompression measuring o pierce the surface & access
Optical	Results: Pass	It transmission of	a sealed micropla		•	e through the material. solution and a microplate
Peel	Results: N/A	re, Adhesive Tran	sfer, Material tea	•		nsion measuring equipment. d & recorded after a 180° peel
Low Temperature Seal Test	Confirming the mater Details: Microplates a integrity. Equipment:	re sealed at speci	fied low temperat		o a series of	tests to substantiate seal
Solvent	Evaluating the materi Details Sealed plate is seal damage & volume	subjected to a hi	gh concentration	of DMSO for a time	e period at lo	w temperatures after which
Plate Types, Sealing Temp. Time Settings	Polypropylene(PP), Po Details: Temperature			Cyclo Olefin Copol	lymer (COC)	





9095-10103-100M Adhesive Crystallography



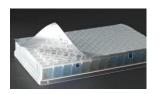




9095-10104 Peel Seal Foil

Description	A peel-able, foil lamin and moderate resistar is non-pierceable.					m ha	s a good liquid barrier
Ordering	9095-10104-078LR 9095-10104-078SR 9095-10104-115LR 9095-10104-115SR 9095-10104-078LS 9095-10104-078SS 9095-10104-078TR 9095-10104-115TR 9095-10104-078TS	** Std ** Sterile *** VII Std *** Sterile VII * Std * Sterile Trial Trial	LabRoll™ LabRoll™ LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabRoll™ LabRoll™	1 Roll 1 Roll 1 Roll 1 Roll 1 Roll 100 Sheets 100 Sheets 1 Roll 1 Roll 5 Sheets	610m 610m 500m 500m 125mm 125mm 5m 125mm	x x x x x x x	78mm 78mm 115mm 115mm 78mm 78mm 115mm
Compatibility	Polypropylene (PP) Pla	ites.					
Application	PCR, low temperature days).	, short term comp	oound storage, sh	ort term room tem	perature co	mpo	und storage (less than 5
Storage	Store in a cool place. A date of purchase. Thre packaging.	-	_				vithin three years from ct sunlight, in original
Properties	Temperature range -8	0°C to 110°C					
Sealing	Temperature and Dwe Equipment: * Efly, Kse Chameleon, REMP (Ph	al, 4s2 ** Wasp, ⁻	ThermoALPS300/3	3000, Kube, Flexise	al,		
		Spec	ifications —				
Visual Description	Metallic with upper su	rface gloss white.	Seal surface meta	allic burnished foil.			
Physical Properties	Flexible, not easily cre	ased. Temperatur	e Range: -80°C to	+110°C			
		——— Test p	rocedures —				
Mass Loss	Confirming the materi Details: Mass loss of so Precision Balance.				nme. Equipr	nent	: ABI Thermocycler,
Pierce	Measuring the force requipment. Results: N Details 5 tests run usin the wells. Equipment I	/A g a standardised	needle, ensuring	_			pression measuring erce the surface & access
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 mater Details: Microplates ar integrity. Equipment:	re sealed at specif	fied low temperat		o a series of	test	s to substantiate seal
Solvent	Evaluating the materi Details Sealed plate is seal damage & volume	subjected to a hig	gh concentration (of DMSO for a time	period at lo	ow te	mperatures after which
Plate Types, Sealing Temp. Time Settings	Polypropylene(PP), w Details: Temperature			nin Cyclo Olefin Co	polymer (CC	OC)	





9095-10105 Pierce Seal Foil DMSO

Description	A DMSO resistant foil		,, ,,	. , .	•	er ar	d high solvent-
	resistance (at high te	mperatures). The	seal is peel-able a	nd non-pierceable			
	9095-10105-078LR	** Std	LabRoll™	1 Roll	610m	х	78mm
	9095-10105-078SR	** Sterile	LabRoll™	1 Roll	610m	х	78mm
	9095-10105-115LR	*** VII Std	LabRoll™	1 Roll	500m	х	115mm
	9095-10105-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	х	115mm
Ordering	9095-10105-078LS	* Std	LabSheet™	100 Sheets	125mm	х	78mm
	9095-10105-078SS	* Sterile	LabSheet™	100 Sheets	125mm	х	78mm
	9095-10105-078TR	Trial	LabRoll™	1 Roll	5m	х	78mm
	9095-10105-115TR	Trial	LabRoll™	1 Roll	5m	х	115mm
	9095-10105-078TS	Trial	LabSheet™	5 Sheets	125mm	х	78mm
Compatibility	Polypropylene (PP) Pl	ates.					
Application	Low temperature and	l ambient tempera	ature storage with	n DMSO and other	solvents		
	Store in a cool place.	Avoid direct expos	sure to sunlight. I	t is recommended	to use the se	als v	vithin three years from
Storage	date of purchase. Thr packaging.	ee years when sto	ored at 21°C (70°F), 50% relative hum	nidity, out of	dire	ct sunlight, in original
Properties	Temperature range -:	20°C to 120°C					
	Temperature and Dw	ell Time: 175° C 2	seconds Recomn	nended sealing			
Sealing	Equipment: * Efly, Ks				al,		
• • •	Chameleon, REMP (P				•		
		· -	ifications —				
		эрес	cations				
Visual Description	Upper glossy metallic surface. Sealing surface less reflective, more highly burnished and smoother.						
Physical Properties	Flexible, not easily cre	eased. Temperatu	re Range: -80°C to) +80°C.			
		——— Test p	orocedures —				
Mass Loss	Confirming the mater Details: Mass loss of s Precision Balance.				mme. Equipr	nent	: ABI Thermocycler,
	Measuring the force		standardised ne	edle through the n	naterial via d	omp	ression measuring
Pierce	equipment. Results: I	N/A					
	Details 5 tests run usi the wells. Equipment	-		that less than 10N	is required t	o pie	rce the surface & acces
	Determining the mat	erials optical clari	ty by measuring t	he transmission o	f emissive d	ye th	rough the material.
Optical	Results: N/A						
Optical	_		•	ate using a Fluroph	ore dye stoc	k sol	ution and a microplate
	reader. Equipment Bi	ИG Labtech - Flurc	Star.				
	Measuring the mater	ials nermanence	of adhesion & its	ability to be remov	ved via exte	nsin	n measuring equipmen
P I	Results: Pass			,	ou, ma exte		
Peel		ire, Adhesive Tran	sfer, Material tea	r & Successful Peel	are measur	ed &	recorded after a 180° p
	test. Equipment Instr	-	•				•
	Confirming the mate	riala abilitu ta usat	ict love town	roe Desulte: Dec			
Low Temperature	Details: Microplates a	•	•		0 2 502:05 -4	+00+	to cubetantists soci
Seal Test	integrity. Equipment:	•	•	iures & subjected t	o a series oi	test	s to substantiate seai
	Evaluating the mater	ials resistance to	solvents (DMSO u	ised as an aggressi	ve standard)	Res	ılts: N/A
	Details Sealed plate is	subjected to a hi	gh concentration	of DMSO for a time	e period at lo	w te	mperatures after which
Solvent	seal damage & volum	e loss are determ	illea. Equipillelli		,		
Solvent Plate Types, Sealing	seal damage & volum					e (Pi	
	Polypropylene (PP), o	ertain Cyclo Olefi	n Copolymer(CO	C) plates, welds to	Polyethylen	-	

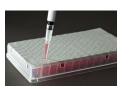




9095-10106 Pierce Seal Foil

Description	A pierceable foil seal v			tion and high solve	nt resistance	e incl	uding DMSO. The film is
	9095-10106-078LR 9095-10106-078SR	** Std ** Sterile	LabRoll™ LabRoll™	1 Roll 1 Roll	610m 610m	x x	78mm 78mm
	9095-10106-0783R 9095-10106-115LR	*** VII Std	LabRoll™	1 Roll	500m	X	115mm
	9095-10106-115ER 9095-10106-115SR	*** Sterile VII	LabRoll™	1 Roll	500m	X	115mm
Ordering	9095-10106-078LS	* Std	LabSheet™	100 Sheets	125mm		78mm
3.468	9095-10106-078SS	* Sterile	LabSheet™	100 Sheets	125mm	Х	78mm
	9095-10106-078TR	Trial	LabRoll™	1 Roll	5m	х	78mm
	9095-10106-115TR	Trial	LabRoll™	1 Roll	5m	х	115mm
	9095-10106-078TS	Trial	LabSheet™	5 Sheets	125mm	х	78mm
Compatibility	Polypropylene (PP), Po	olystyrene (PS).					
Application	Low temperature and sample shipping.	ambient tempera	ature storage with	n DMSO and other	solvents. PCI	R, co	mpound storage,
Storage	Store in a cool place. A date of purchase. Three packaging.	•	•				vithin three years from ct sunlight, in original
Properties	Temperature range -2	0°C to 120°C					
Торолис							
	Temperature and Dwe	•		U			
Sealing	Equipment: * Efly, Kse				al,		
	Chameleon, REMP (PI	IS) *** Agilent VI	l Plateloc, REMP (LHS/SHS)			
		——— Spec	ifications —				
Visual Description	Metallic reflective foil,	with both sides a	ppearing very sin	nilar. Dashed line d	enotes the ι	ıppeı	r surface.
Physical Properties	Very flexible foil, not e	easily creased. Tei	mperature Range:	: -20°C to 120°C.			
		Test p	rocedures —				
Mass Loss	Confirming the materi Details: Mass loss of so Precision Balance.				nme. Equipr	nent	: ABI Thermocycler,
	Measuring the force r		standardised ne	edle through the n	naterial via o	omp	ression measuring
Pierce		g a standardised			is required t	o pie	erce the surface & access
	Determining the ma	aterials adhesio	on to the plate.	Results Pass			
Burst Testing	_	t transmission of	a sealed micropla		ore dye stoc	k sol	ution and a microplate
	J	als permanence	of adhesion & its	ability to be remov	ed, via exte	nsio	n measuring equipment.
Peel	Results: Pass Details Cohesive Failu test. Equipment Instro	•		r & Successful Peel	are measur	ed &	recorded after a 180° pe
	Confirming the mater	ials ahility to rosi	st low temperati	iras Rasults: Dass			
Low Temperature Seal Test	Details: Microplates a integrity. Equipment:	re sealed at speci	fied low tempera		o a series of	test	s to substantiate seal
Solvent	Evaluating the materi	als resistance to s subjected to a hi	solvents (DMSO ι gh concentration	of DMSO for a time	period at lo	w te	mperatures after which
Plate Types, Sealing	Polypropylene(PP), Po	olystyrene (PS)					
Temp. Time Settings		subjected to a high	_		•		emperatures after which solution.
	seal damage & volum	e loss are determi	ined. Equipment I	Laboratory Cold sto	rage unit, D	MSO	solution.

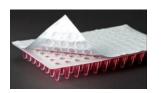




9095-10107 Pierce Seal Foil PS

Description	multiple sealing and re	sealing propertie	s. The seal is peel	-able Polystyrene	only and pie	g surface identification with rceable. foil seal with easy nn-peel-able, pierceable and re-	
Ordering	9095-10107-078LR 9095-10107-078SR 9095-10107-115LR 9095-10107-115SR 9095-10107-078LS 9095-10107-078SS 9095-10107-078TR 9095-10107-115TR 9095-10107-078TS	** Std ** Sterile *** VII Std *** Sterile VII * Std * Sterile Trial Trial	LabRoll™ LabRoll™ LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabRoll™ LabRoll™	1 Roll 1 Roll 1 Roll 1 Roll 1 Roll 100 Sheets 100 Sheets 1 Roll 1 Roll 5 Sheets	610m 610m 500m 500m 125mm 125mm 5m 5m	x 78mm x 78mm x 115mm x 115mm x 78mm x 78mm x 78mm x 78mm x 78mm x 78mm x 115mm x 78mm	
Compatibility	Polypropylene (PP), Po	lystyrene (PS).					
Application	PCR low temperature	compound storag	e, short term rooi	n temperature cor	mpound stor	rage.	
Storage						eals within three years from direct sunlight, in original	
Properties	Temperature range -2	0°C to 110°C					
Sealing	Temperature and Dwe Equipment: * Efly, Kse Chameleon, REMP (PH	al, 4s2 ** Wasp, 1	hermoALPS300/3	3000, Kube, Flexise	al,		
		Spec	ifications —				
Visual Description	Metallic reflective foil,	with both sides a	ppearing very sim	ilar. Printed line de	enotes uppe	er surface.	
Physical Properties	Very flexible foil, not e			-20°C to 110°C.			
		—— Test p	rocedures —				
Mass Loss	Confirming the materia Details: Mass loss of so Precision Balance.				nme. Equipn	ment: ABI Thermocycler,	
Pierce	equipment. Results: P	ass g a standardised	needle, ensuring t	that less than 10N		compression measuring o pierce the surface & access	
Burst Testing	Determining the ma Details Microplates are Equipment Miniburst 5	sealed and teste			e achieved 2	bar of pressure or greater.	
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 materi Details: Microplates ar integrity. Equipment: I	e sealed at specif	ied low temperat		o a series of	tests to substantiate seal	
Solvent	Evaluating the materia Details Sealed plate is seal damage & volume	subjected to a hig	th concentration of	of DMSO for a time	period at lo	ow temperatures after which	
Plate Types, Sealing Temp. Time Settings	Polypropylene(PP), Po		seconds.				





9095-10108 Therm Seal Foil

	A strong handing fail	to Polynronylene	which is ideal for	water thermal cycl	ers The foil	has	good solvent resistance
Description	including DMSO and i			water thermal eyer	C13. 111C 1011	iius į	good solvene resistance
	9095-10108-078LR	** Std	LabRoll™	1 Roll	500m	х	78mm
	9095-10108-078SR	** Sterile	LabRoll™	1 Roll	500m	х	78mm
	9095-10108-115LR	*** VII Std	LabRoll™	1 Roll	350m	х	115mm
	9095-10108-115SR	*** Sterile VII	LabRoll™	1 Roll	350m	х	115mm
Ordering	9095-10108-078LS	* Std	LabSheet™	100 Sheets	125mm	х	78mm
	9095-10108-078SS	* Sterile	LabSheet™	100 Sheets	125mm	х	78mm
	9095-10108-078TR	Trial	LabRoll™	1 Roll	5m	х	78mm
	9095-10108-115TR	Trial	LabRoll™	1 Roll	5m	Х	115mm
	9095-10108-078TS	Trial	LabSheet™	5 Sheets	125mm	Х	78mm
Compatibility	Polypropylene (PP), P	olystyrene (PS).					
Application	PCR, specifically wate term storage. Transpo	-	_	ts and other organ	ics, includin	g acid	ds and alkaline. Long
Storage	· ·	•					vithin three years from ct sunlight, in original
Properties	Temperature range -2	20°C to 110°C					
	Temperature and Dw						
Sealing	Equipment: * Efly, Ks		•		al,		
	Chameleon, REMP (P	HS) *** Agilent VI	l Plateloc, REMP (LHS/SHS)			
		Snec	ifications —				
							1: 1 0 .:
Visual Description	Upper highly reflective	e metallic with a g	loss finish. Seal si	de burnished meta	l, duller but	still s	shiny, less reflective.
Physical Properties	Foil, thermal seal. Res Range: -200°C to +110	•	low temperature	s. Thick, quite easy	to crease b	ut sti	ll flexible. Temperature
		—— Test p	orocedures —				
Mass Loss	Confirming the mater Details: Mass loss of so Precision Balance.				nme. Equipr	nent	: ABI Thermocycler,
	Measuring the force	equired to push a	standardised ne	edle through the n	naterial via d	omr	ression measuring
B'	equipment. Results: F						
Pierce		ng a standardised	_	that less than 10N	is required t	o pie	erce the surface & access
	the wells. Equipment	1115(1011 5545 1611)	ometer.				
	Determining the m	aterials adhesion	on to the plate.	Results Pass			
Burst Testing	Details Microplates ar Equipment Mini-burst		ed under pressure	e. Tests passed onc	e achieved 2	bar	of pressure or greater.
	_	ials permanence	ot adhesion & its	ability to be remov	ed, via exte	nsio	n measuring equipment.
Peel	Results: Pass	A.II	-C NA-1	. 0. 0		0	
	test. Equipment Instr			r & Successful Peel	are measur	ea &	recorded after a 180° peel
	test. Equipment mistr	JII 5545 TEHSUITE	ter.				
Low Temperature	Confirming the mate	rials ability to res	st low temperatu	res. Results: Pass			
Seal Test	Details: Microplates a	•	•	tures & subjected t	o a series of	test	s to substantiate seal
Jean rest	integrity. Equipment:	Laboratory Cold	torage unit.				
	Evaluating the mater	ials resistance to	solvents (DMSO :	ised as an appressiv	/e standard\	Reci	ults: Pass
							emperatures after which
Solvent	seal damage & volum	-	-		•		· ·
	Joan damage & volum	ooo are determ	za. zqaipiliciit l		uint, D		
Plate Types, Sealing	Polypropylene(PP), P	olystyrene (PS)					
Temp. Time Settings	Temperature and Dw	ell Time: 175°C, 2	seconds.				
	(

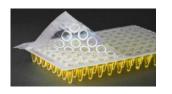




9095-10110 Gas Perm Seal

Description	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.
	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
Ordering	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
Compatibility	Polypropylene (PP), Polystyrene (PS).
Application	Short term incubation, agriculture and seed storage, insect storage, 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	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)
	Specifications —
Visual Description	White non-woven. Seal side has a shiny lacquer coating
Physical Properties	Temperature Range: -20°C to +80°C. Compatibility: Polypropylene (PP), Polystyrene (PS)
	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 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° per test. Equipment Instron 3343 Tensometer.
Water Vapour Transmission	Confirming the materials ability to breath. Results: Pass 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/m²/24h
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, Sealing Temp. Time Settings	Polypropylene(PP), Polystyrene (PS) Temperature and Dwell Time: 160°C, 2 seconds.





9095-10111 Clear Seal Perf

Description	A clear, perforated gas permeable film, suite solvent resistance. The seal is non peel-able		good optical clarity and moderate				
Ordering	9095-10111-078SR ** Sterile La 9095-10111-115LR *** VII Std La 9095-10111-115SR *** Sterile VII La 9095-10111-078LS * Std La 9095-10111-078SS * Sterile La 9095-10111-078TR Trial La 9095-10111-115TR Trial La	bRoll™ 1 Roll bRoll™ 1 Roll bRoll™ 1 Roll bRoll™ 1 Roll bBRoll™ 100 Sheets bSheet™ 100 Sheets bRoll™ 1 Roll bRoll™ 1 Roll bRoll™ 5 Sheets	610m x 78mm 610m x 78mm 500m x 115mm 500m x 115mm 125mm x 78mm 125mm x 78mm 5m x 78mm 5m x 115mm 125mm x 78mm				
Compatibility	Polypropylene (PP), Polyethylene (PE), Polys Olefin Copolymer (COC) plates.	styrene (PS) and Cyclic					
Application	Short-term incubation, agriculture and seed	l storage, insect storage, cell cult	ure.				
Storage	Store in a cool place. Avoid direct exposure date of purchase. Three years when stored packaging.	=	•				
Properties	Temperature range -80°C to 80°C, or 110°C	with pressurised PCR heated lids					
Sealing	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)						
	Specifica	ntions —					
Physical Properties	Temperature Range: -80°C to +80°C or 110°C	C with pressurized PCR heated lic	ds				
	Test proc	edures					
Mass Loss	Confirming the materials ability to resist hig Details: Mass loss of solution evaluated after Precision Balance.		nme. Equipment: ABI Thermocycler,				
Pierce	Measuring the force required to push a star equipment. Results: N/A Details 5 tests run using a standardised need the wells. Equipment Instron 3343 Tensome	dle, ensuring that less than 10N i					
Optical	Determining the materials optical clarity by Results: Pass Details Record the light transmission of a se reader. Equipment BMG Labtech - FluroStar	aled microplate using a Fluropho					
Peel	Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment. Results: N/A 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 resist lo Details: Microplates are sealed at specified integrity. Equipment: Laboratory Cold stora	low temperatures & subjected to	o a series of tests to substantiate seal				
Solvent	Evaluating the materials resistance to solve Details Sealed plate is subjected to a high co seal damage & volume loss are determined.	oncentration of DMSO for a time	period at low temperatures after which				
Plate Types, Sealing Temp. Time Settings	Polypropylene (PP), Polyethylene (PE), Poly Details: Temperature and Dwell Time: 175°0		ymer (COC)				





9095-10113 Gas Perm Seal 2

Description	A 60gsm Paper with a grid la Solid Contaminants. It seals t certified free from nucleases	o Polypropy		• •			
Ordering	9095-10113-115LR ***	terile VII Std Sterile VII	LabRoll™ LabRoll™ LabRoll™ LabRoll™ LabRoll™	1 Roll 1 Roll 1 Roll 1 Roll 100 Sheets	610m 2 610m 2 500m 2 500m 2	c 115mm c 115mm	
Cideling		erile I I	LabSheet™ LabRoll™ LabRoll™ LabSheet™	100 Sheets 1 Roll 1 Roll 5 Sheets	125mm 2	c 78mm c 78mm c 115mm	
Compatibility	Polypropylene (PP), Polystyr	ene (PS).					
Application	Short term incubation, agric	ulture and se	eed storage, inse	ct storage, cell cult	ure.		
Storage	Store in a cool place. Avoid of date of purchase. Three yea packaging.	-	_			•	
Properties	Temperature range -20°C to	80°C					
Sealing	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)						
		- Speci	fications —				
Visual Description	Upper 60gsm paper. Seal sid	e grid effect	lacquer coating				
Physical Properties	Temperature Range: -20°C to	o +80°C. Com	npatibility: Polypi	opylene (PP), Poly	styrene (PS)		
		Test pr	ocedures —				
Mass Loss	Confirming the materials ab Details: Mass loss of solution Precision Balance.	•		•	nme. Equipme	nt: ABI Thermocycler,	
Pierce	Measuring the force require equipment. Results: Pass Details 5 tests run using a stathe wells. Equipment Instror	andardised n	eedle, ensuring t	J			
Optical	Determining the materials of Results N/A Details Record the light tran- reader. Equipment BMG Lab	smission of a	sealed micropla			_	
Peel	Measuring the materials pe Results: Pass Details Cohesive Failure, Adl test. Equipment Instron 334	hesive Trans	fer, Material tear	•		ion measuring equipment. & recorded after a 180° peel	
Porosity Bendsten	Confirming the materials at Details: Measure the define Units ml/min Target: 25	-		h the material by s	pecified press	ure. Test Method: ISO3781,	
Solvent	Evaluating the materials res Details Sealed plate is subjected seal damage & volume loss	cted to a higl	h concentration o	of DMSO for a time	period at low	temperatures after which	
Plate Types, Sealing Temp. Time Settings	Polypropylene (PP) Polystyi Temperature and Dwell Tim			mer (COC)			

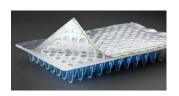




9095-10114 Peel Seal Foil Super

Description	Polystyrene (PS) and C	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.							
	9095-10114-078LR 9095-10114-078SR 9095-10114-115LR 9095-10114-115SR	** Std ** Sterile *** VII Std *** Sterile VII	LabRoll™ LabRoll™ LabRoll™ LabRoll™	1 Roll 1 Roll 1 Roll 1 Roll	610m 610m 500m 500m	X X X	78mm 78mm 115mm 115mm		
Ordering	9095-10114-1155K 9095-10114-078LS 9095-10114-078SS 9095-10114-078TR	* Std * Sterile Trial	LabSheet™ LabSheet™ LabRoll™	100 Sheets 100 Sheets 1 Roll	125mm 125mm 5m	х	78mm 78mm 78mm		
	9095-10114-115TR 9095-10114-078TS	Trial Trial	LabRoll™ LabSheet™	1 Roll 5 Sheets	5m 125mm	x x	115mm 78mm		
Compatibility	Polypropylene (PP), Polystyrene (PS) & Cyclo Olefin Copolymer (COC) plates								
Application	PCR, low temperature days).	e, short term comp	oound storage, sh	ort term room tem	perature co	mpoı	und storage (less than 5		
Storage	Store in a cool place. date of purchase. Thr packaging.	•	_				ithin three years from It sunlight, in original		
Properties	Temperature range -8	80°C to 110°C							
Sealing	Temperature and Dw Equipment: * Efly, Kso Chameleon, REMP (Pl	eal, 4s2 ** Wasp, ⁻	ThermoALPS300/	3000, Kube, Flexise	al,				
		Spec	ifications —						
Visual Description	Metallic with upper su			allic burnished foil.					
Physical Properties	Flexible, not easily cre	ased. Thicker than	n IST-104. Temper	rature Range: -80°C	to +110°C				
		——— Test p	rocedures —						
Mass Loss	Confirming the mater Details: Mass loss of so Precision Balance				nme. Equipn	nent:	ABI Thermocycler,		
Pierce	Measuring the force requipment. Results: No Details 5 tests run using the wells. Equipment	N/A ng a standardised	needle, ensuring	· ·		·	ression measuring rce the surface & access		
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 mater Details: Microplates a integrity. Equipment:	re sealed at speci	fied low temperat		o a series of	tests	to substantiate seal		
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, Sealing Temp. Time Settings	plates.	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC) and non-binding coated plates. Temperature and Dwell Time: 175°C, 2 seconds.							
	1 1 1 1 1 1	, -							





9095-10115 Pierce Seal Foil Super

Description	A "stick to all" surface The film is peel-able a	•	seal with easy sea	iling surface identif	ication and	mod	erate solvent resistance.		
	9095-10115-078LR 9095-10115-078SR 9095-10115-115LR	** Std ** Sterile *** VII Std	LabRoll™ LabRoll™ LabRoll™	1 Roll 1 Roll 1 Roll	610m 610m 500m	x x x	78mm 78mm 115mm		
Ordering	9095-10115-115SR 9095-10115-078LS 9095-10115-078SS	*** Sterile VII * Std * Sterile	LabRoll™ LabSheet™ LabSheet™ LabRoll™	1 Roll 100 Sheets 100 Sheets	500m 125mm 125mm	X X	115mm 78mm 78mm		
	9095-10115-078TR 9095-10115-115TR 9095-10115-078TS	Trial Trial Trial	LabRoll™ LabSheet™	1 Roll 1 Roll 5 Sheets	5m 5m 125mm	x x x	78mm 115mm 78mm		
Compatibility	Polypropylene (PP), P	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)							
Application	PCR, compound stora	ge, sample shippir	ng.						
Storage	· ·	•	U				vithin three years from ct sunlight, in original		
Properties	Temperature range -8	Temperature range -80°C to 80°C							
Sealing	Equipment: * Efly, Ks	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)							
		Spec	ifications —						
Visual Description	Metallic reflective foil	Metallic reflective foil, with both sides appearing very similar. Ensure correct surface is being used for sealing.							
Physical Properties	Flexible foil, not easily	creased. Temper	ature Range: -80°	C to 80°C.					
		——— Test p	rocedures —						
Mass Loss	Confirming the mater Details: Mass loss of so Precision Balance.				nme. Equipr	nent	: ABI Thermocycler,		
Pierce	equipment. Results: I Details 5 tests run usi	Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A 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 mate Results N/A Details Record the light reader. Equipment BN	nt transmission of	a sealed micropla		·		rough the material. ution and a microplate		
Peel	Results: Pass Details Cohesive Failu	Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment.							
Low Temperature Seal Test	Confirming the mater Details: Microplates a integrity. Equipment:	re sealed at specif	fied low temperat		o a series of	test	s to substantiate seal		
Solvent	Details Sealed plate is	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, Sealing Temp. Time Settings	Polypropylene (PP), F Temperature and Dw			Cyclo Olefin Copo	lymer (COC))			





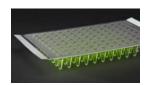
9095-10120 Quick Seal PCR

Description	A "stick to all" surfaces, pierce-able foil seal with easy sealing surface identification and moderate solve. The film is peel-able and pierce-able.	ent resistance.
	9095-10120-080LR ** Std LabRoll™ 1 Roll 100m x 80mm	
Oudouise	9095-10120-080SR ** Sterile LabRoll™ 1 Roll 100m x 80mm 9095-10120-080LS * Std LabSheet™ 100 Sheets 135mm x 80mm	
Ordering	9095-10120-080LS * Std LabSheet™ 100 Sheets 135mm x 80mm 9095-10120-080SS * Sterile LabSheet™ 100 Sheets 135mm x 80mm	
	9095-10120-080TS Trial LabSheet™ 5 Sheets 135mm x 80mm	
Compatibility	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)	
Application	PCR	
Storage	Store in a cool place. Avoid direct exposure to sunlight. It is recommended to use the seals within thre date of purchase. Three years when stored at 21°C (70°F), 50% relative humidity, out of direct sunlight packaging.	•
Properties	Temperature range -20°C to 100°C	
Sealing	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.	
	Specifications	
Visual Description	A transparent self-adhesive seal consisting of a PET backing and a modified acrylic adhesive.	
Physical Properties	High holding power even at elevated temperatures. Superior converting performance due to strong PE reduced adhesive mass flow. Temperature Range: -20°C to +110°C	T backing and
	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 There Precision Balance.	mocycler,
	Measuring the force required to push a standardised needle through the material via compression mequipment. Results: N/A	easuring
Pierce	Details 5 tests run using a standardised needle, ensuring that less than 10N is required to pierce the su the wells. Equipment Instron 3343 Tensometer.	rface & access
	Determining the materials optical clarity by measuring the transmission of emissive dye through the Results Pass	material.
Optical	Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and reader. Equipment BMG Labtech - FluroStar.	a microplate
Pard .	Measuring the materials permanence of adhesion & its ability to be removed, via extension measuri Results: Pass	ng equipment.
Peel	Details Cohesive Failure, Adhesive Transfer, Material tear & Successful Peel are measured & recorded test. Equipment Instron 3343 Tensometer	after a 180° pe
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 substaintegrity. Equipment: Laboratory Cold storage unit.	intiate seal
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 temperature seal damage & volume loss are determined. Equipment Laboratory Cold storage unit, DMSO solution.	es after which
Plate Types	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)	



Adhesive Seals





9095-10121 Quick Seal qPCR Crystal

2	An optically clear, DMSO resistant pressure sensitive seal which is suited for qPCR (96 or 384 well) fluorescence,							
Description	crystallation, storage. A transparent non-tacky film which adheres only when pressure is applied. It is non-pierceable and peel-able.							
Ordering	9095-10121-080LR							
Compatibility	Polypropylene (PP), Polystyrene (PS) and Cyclo Olefin Copolymer (COC)							
Application	qPCR (94 or 384 well) and situations where fluorescence is experienced and optical clarity is required.							
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 100°C							
Sealing	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.							
	Specifications —							
Visual Description	Clear plastic, reflective, glossy on the top. Very thin and light and doesn't crease easily.							
Physical Properties	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 —							
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: N/A 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 Pass 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)							





9095-10122 Quick Seal qOptic

	A tura usa a usa t films high is suite	hla fau aDCD. Tha anal ia			
Description	A transparent film which is suita windows.	able for qPCR. The sear is	non-pierceable, is j	deel-able and C	contains precise optical
	9095-10122-080LR ** Std	LabRoll™	1 Roll	100m :	x 80mm
	9095-10122-080SR ** Steri		1 Roll		x 80mm
Ordering	9095-10122-080LS * Std	LabSheet™	100 Sheets		x 80mm
Ordering	9095-10122-080SS * Sterile		100 Sheets		x 80mm
	9095-10122-080TS Trial	e LabSheet™ LabSheet™	5 Sheets	140mm	
Compatibility	Polypropylene (PP), Polystyrene	e (PS) and Cyclo Olefin C	anolymer (COC)		
compatibility	Torypropyrene (TT), Torystyrene	e (1 3) una eyelo olemi e	sporymer (coe)		
Application	qPCR, fluorescence applications	S.			
Storage	Store in a cool place. Avoid dire date of purchase. Three years v				-
	packaging.				
Properties	Temperature range -20°C to 11	0°C			
Sealing	Recommended sealing Equipme	ent: KAPS 500/Seal-it 10	D/Manual Roller.		
		_			
		- Specifications —			
Physical Properties	Temperature Range: -20°C to +:	110°C			
		Test procedures -			
	Confirming the materials ability	v to resist high temperat	ures. Results: Pass		
Mass Loss	Details: Mass loss of solution ev			mme. Equipme	ent: ABI Thermocycler,
	Precision Balance.				
	Measuring the force required to	o push a standardised n	eedle through the n	naterial via coi	mpression measuring
Pierce	equipment. Results: N/A				
	Details 5 tests run using a stand the wells. Equipment Instron 33		that less than 10N	is required to	pierce the surface & access
	Determining the materials opti		the transmission o	f amissiva dva	through the material
	Results Pass	ical clarity by illeasuring	the transmission o	i ciiiissive uye	tinough the material.
Optical	Details Record the light transmi	ission of a spaled micron	late using a Fluronh	ore due stock s	solution and a microplate
	reader. Equipment BMG Labted		iate using a muropii	ore uye stock s	solution and a micropiate
	Measuring the materials perm	anence of adhesion & its	ahility to he remo	ved via extens	sion measuring equinment
	Results: Pass	and the distance of the second of the		. ca, tia catella	
Peel	Details Cohesive Failure, Adhes test. Equipment Instron 3343 To	•	ar & Successful Pee	are measured	& recorded after a 180° p
I ann Tamana and an	Confirming the materials abilit	y to breath. Results: Pas	s		
Low Temperature Seal Test	Details: Microplates are sealed integrity. Equipment: Laborator	at specified low tempera		o a series of te	ests to substantiate seal
	Evaluating the materials resists				
Solvent	Details Sealed plate is subjected				
-	seal damage & volume loss are	determined. Equipment	Laboratory Cold sto	orage unit, DM	SO solution.

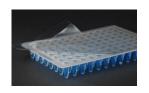




9095-10124 Quick Seal Gas Perm

			6					
Description	A transparent, perforated gas permeabl pierce-able.	le film. The seal is p	erforated and per	meable to g	ases. I	t is peel-able and		
	9095-10124-080LR ** Std 9095-10124-080SR ** Sterile	LabRoll™ LabRoll™	1 Roll 1 Roll	100m 100m		30mm 30mm		
Ordering	9095-10124-080LS * Std	LabSheet™	100 Sheets	135mm		30mm		
	9095-10124-080SS * Sterile	LabSheet™	100 Sheets	135mm	х 8	30mm		
	9095-10124-080TS Trial	LabSheet™	5 Sheets	135mm	x 8	30mm		
Compatibility	Polypropylene (PP), Polystyrene (PS) an	nd Cyclo Olefin Copo	olymer (COC)					
Application	Bacterial culture, Eukaryotic cell culture	2,						
	Store in a cool place. Avoid direct expos	sure to sunlight. It i	s recommended t	o use the sea	als wit	hin three years from		
Storage	date of purchase. Three years when sto packaging.	ored at 21°C (70°F),	50% relative hum	idity, out of o	direct	sunlight, in original		
Properties	Temperature range -20°C to 80°C							
Sealing	Recommended sealing Equipment: KAP	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.						
	Spec	cifications ——						
Visual Description	Transparent, Perforated EVA medical Ta	ape, Plastic, weave	textured, with a c	ream coloure	ed Lin	er.		
Physical Properties	Single coated tape, consisting of a trans adhesive. Temperature range: -20°C to		hypoallergenic c	oated, pressi	ure se	nsitive acrylate		
	Test p	orocedures —						
Mass Loss	Confirming the materials ability to resis Details: Mass loss of solutions evaluated Equipment: ABI Thermocycler, Precision	d after 30 Cycles of		mme.				
Pierce	Measuring the force required to push a equipment. Results: Pass		_		-	_		
	Details 5 tests run using a standardised the wells. Equipment Instron 3343 Tens	_	nat less than 10N	s required to	o piero	e the surface & access		
	Determining the materials optical clari	ty by measuring th	e transmission of	emissive dy	e thro	ugh the material.		
Optical	Results N/A Details Record the light transmission of reader. Equipment BMG Labtech - Fluro	•	e using a Fluropho	ore dye stock	c solut	ion and a microplate		
	Measuring the materials permanence	of adhesion & its al	oility to be remov	ed, via exter	nsion	measuring equipment.		
Peel	Results: Pass Details Cohesive Failure, Adhesive Tran test. Equipment Instron 3343 Tensomet		& Successful Peel	are measure	ed & re	ecorded after a 180° peel		
	Confirming the materials ability to resi	st low temperature	es. Results: Pass					
Porosity Bendsten	Details: MVTR, gms/m2/day. Air Porosit	-						
Low Temperature Seal Test	Confirming the materials ability to bread Details: Microplates are sealed at specifintegrity. Equipment: Laboratory Cold s	fied low temperatu	res & subjected t	o a series of t	tests t	o substantiate seal		
Solvent	Details Sealed plate is subjected to a high	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), Polyethylene (PE),	, Polystyrene (PS) C	yclo Olefin Copo	ymer (COC).				
				_				

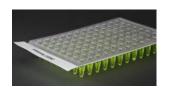




9095-10125 Quick Seal Micro

Description	A strong transparent adhesive film which is suitable for sample storage. The seal is non-pierceable and peel-able with a medium strength.						
	9095-10125-080LR						
Ordering	9095-10125-080SR ** Sterile LabRoll™ 1 Roll 100m x 80mm — 9095-10125-080LS * Std LabSheet™ 100 Sheets 135mm x 80mm						
Ordering	9095-10125-080SS * Sterile LabSheet™ 100 Sheets 135mm x 80mm						
	9095-10125-080TS Trial LabSheet™ 5 Sheets 135mm x 80mm						
Compatibility	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)						
Application	Sample Storage (aqueous), low cost cover for application like centrifugation.						
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	Opaque, Thin, Plastic material.						
Physical Properties	Polypropylene – PP – Top Coated, Gloss Clear TC PP						
	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.						
	Measuring the force required to push a standardised needle through the material via compression measuring equipment. Results: N/A						
Pierce	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.						
	Determining the materials optical clarity by measuring the transmission of emissive dye through the material.						
Optical	Results Pass Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.						
	Measuring the materials permanence of adhesion & its ability to be removed, via extension measuring equipment.						
Peel	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: 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), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)						

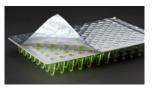




9095-10126 Quick Seal DMSO X

	A transport file which is PASCO printers. This file is and able with property country well and in it ideal for							
Description	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.							
Ordering	9095-10126-080LS							
Compatibility	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)							
Application	Sample access and retrieval for 96 well plates for use with auto samplers and sequencers.							
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 80°C							
Sealing	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.							
	Specifications —							
Visual Description	Clear plastic film with cross cuts over the wells.							
Physical Properties	Temperature Range: -40°C to +80°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: N/A 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 Pass							
	Details Record the light transmission of a sealed microplate using a Flurophore dye stock solution and a microplate reader. Equipment BMG Labtech - FluroStar.							
Peel	- · · · · · · · · · · · · · · · · · · ·							
Peel Low Temperature Seal Test	reader. Equipment BMG Labtech - FluroStar. 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							
Low Temperature	reader. Equipment BMG Labtech - FluroStar. 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. 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							

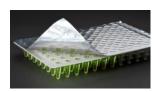




9095-10127 Quick Seal Foil PCR

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.
	9095-10127-080LR ** Std LabRoll™ 1 Roll 200m x 80mm 9095-10127-080SR ** Sterile LabRoll™ 1 Roll 200m x 80mm
Ordering	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)

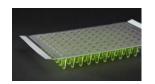




9095-10129 Quick Seal Foil PCR Ultra

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.								
	9095-10129-080LR 9095-10129-080SR	** Std ** Sterile	LabRoll™ LabRoll™	1 Roll 1 Roll	150m 150m	x x	80mm 80mm		
Ordering	9095-10129-080LS 9095-10129-080SS	* Std * Sterile	LabSheet™ LabSheet™	100 Sheets 100 Sheets	135mm 135mm	X X	80mm 80mm		
	9095-10129-080TS	Trial	LabSheet™	5 Sheets	135mm	X	80mm		
Compatibility	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)								
Application	PCR and sample stora	ge.							
Storage	Store in a cool place. A date of purchase. Three packaging.	•	_				-		
Properties	Temperature range -4	10°C to 120°C							
Sealing	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.								
		Spo	ecifications —						
Visual Description	Thin, Metallic, Reflecti	ive, 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 mater Details: Mass loss of so Precision Balance.				nme. Equipm	nent:	ABI Thermocycler,		
Pierce		N/A ng a standardise	d needle, ensuring	_		-	ession measuring		
	the wells. Equipment Determining the mate			he transmission of	emissive dv	e thr	ough the material		
Optical	Determining the materials optical clarity by measuring the transmission of emissive dye through the material. Results Pass 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 mater Details: Microplates a integrity. Equipment:	re sealed at spe	cified low temperat		o a series of	tests	to substantiate seal		
Solvent	Details Sealed plate is	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), I	Polyethylene (P	E), Polystyrene (PS)	, Cyclo Olefin Copo	olymer (COC)				

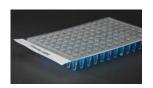




9095-10130 Quick Seal qPCR Ultra

Description	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.						
Ordering	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						
Compatibility	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)						
Application -	qPCR (94 or 384 well) and situations where fluorescence is experienced.						
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 110°C						
Sealing	Recommended sealing Equipment: KAPS 500/Seal-it 100/Manual Roller.						
	Specifications —						
Visual Description	Clear plastic, reflective, glossy on the top. Very thin and light and does not crease easily.						
Physical Properties	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						
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: N/A 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 Pass 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°C 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)						





9095-10131 Quick Seal DMSO Standard

Description	A transparent, optically clear, DMSO re pierceable and peel-able.	sistant, non-tacky fi	lm, which adhere	s only when pi	ressure is applied. It is non-		
Ordering	9095-10131-080LR Std 9095-10131-080SR Sterile 9095-10131-080LS * Std 9095-10131-080SS * Sterile 9095-10131-080TS Trial	LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabSheet™	1 Roll 1 Roll 100 Sheets 100 Sheets 5 Sheets	100m 2 140mm 2 140mm 2			
Compatibility	Polypropylene (PP), Polyethylene (PE),	Polystyrene (PS), Cy	yclo Olefin Copoly	mer (COC)			
Application	Micro-plate sealing containing solvent	s including DMSO.					
Storage	Store in a cool place. Avoid direct expo date of purchase. Three years when st packaging.						
Properties	Temperature range -40°C to 80°C						
Sealing	Recommended sealing Equipment: KA	PS 500/Seal-it 100/f	Manual Roller.				
	Spe	cifications —					
Visual Description	A clear polypropylene DMSO resistant	film, which is peel-a	ble, but not pierc	eable.			
Physical Properties	Temperature range: -40°C to +80°C						
	Test	procedures —					
Mass Loss	Confirming the materials ability to resi Details: Mass loss of solution evaluated Equipment: ABI Thermocycler, Precisio	after 30 cycles of 3		nme.			
Pierce	Measuring the force required to push equipment. Results: N/A Details 5 tests run using a standardised the wells. Equipment Instron 3343 Ten	needle, ensuring th	_				
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°C peel test. Equipment Instron 3343 Tensometer.						
Low Temperature Seal Test	Confirming the materials ability to bre Details: Microplates are sealed at spec integrity. Equipment: Laboratory Cold	ified low temperatu	ıres & subjected t	o a series of te	ests to substantiate seal		
Solvent	Evaluating the materials resistance to Details Sealed plate is subjected to a h seal damage & volume loss are determ	igh concentration o	f DMSO for a time	period at low	temperatures after which		
Plate Types	Polypropylene (PP), Polyethylene (PE), Polystyrene (PS), Cyclo Olefin Copolymer (COC)						





9095-10132 Quick Seal Gas Perm Woven

			7570				
Description	The Seal is Porous, Ga	s Permeable and a	barrier to solid c	ontaminants.			
Ordering	9095-10132-080LR 9095-10132-080SR 9095-10132-115LR 9095-10132-115SR 9095-10132-080LS 9095-10132-080SS 9095-10132-080TR	** Std ** Sterile *** VII Std *** Sterile VII * Std * Sterile Trial	LabRoll™ LabRoll™ LabRoll™ LabRoll™ LabSheet™ LabSheet™ LabSheet™ LabRoll™	1 Roll 1 Roll 1 Roll 1 Roll 1 Roll 100 Sheets 100 Sheets 1 Roll	150m 150m 150m 150m 125mm 125mm 5m	x x x x x x	80mm 80mm 80mm 115mm 80mm 80mm
	9095-10132-115TR 9095-10132-080TS	Trial Trial	LabRoll™ LabSheet™	1 Roll 5 Sheets	5m 125mm	X X	115mm 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 p	rocedures —				
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 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.						
Porosity Bendsten	Confirming the materials ability to breath. Results: Pass Details: Moisture Vapour Transmission—4200gms/m2/24hrs						
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)						

