

# Heat Sealing Films & Foils Comparison Table

	Clear Seal	Clear Weld Seal Mark II	Clear Seal 3730	Peel Seal	DMSO Resistant Peel Seal	Pierce Seal	Foil Seal & PS Foil Seal	Thermal Bond	Black Seal	Gas Permeable Seal Mk 2	Gas Permeable Clear Seal	INDI Seal
	p66	p66	p67	p67	p68	p68	p69/70	p70	p71	p71	p72	p69
Application	qPCR, short term compound storage.	PCR (esp. water bath), qPCR. Storage & disposal of hazardous materials.	qPCR and for use with ABI 3730 Sequencer.	Low temperature, compound storage, short term room temperature compound storage (<5 days), PCR.	Low temperature / room temperature compound storage with DMSO & other organic solvents.	PCR, compound storage, sample shipping	Low temperature compound storage/short-term room temperature compound storage, PCR.	Low temperature transportation & storage. PCR, esp. water bath cyclers. Storage of organic solvents, acids & alkalines.	Fluorescent & other light sensitive assays	Cell culture, overnight incubation, seed and insect storage	Storage e.g. for seeds or insects	Compound storage, sample shipping
Special Properties	Good optical clarity. Moderate solvent resistance.	Good optical clarity & resistant to DMSO.	Good optical clarity, some solvent resistance.	Can be peeled directly from -80°C freezer. Moderate resistance to solvents at room temperature.	Can be peeled directly from -80°C freezer. High resistance to solvents even at elevated temperatures.	Easily pierceable. Resistant to DMSO. Re-sealable with another Pierce Seal. Colour print identifies non-sealing surface.	Re-sealable with another Foil Seal. Resistant to DMSO. Colour print identifies non-sealing surface. (Foil Seal only)	Very strong seal with PP. Resistant to DMSO and other solvents	A foil-based heat seal, coated on the sealing surface with a low fluorescence black pigment	Small pore size that allows gaseous exchange, but limits evaporation. Permeability rate >20g/5qm/24h 20µm pore size	3mm slits across entire surface of seal makes this permeable to gases	96 perforated individual sealing caps in a foil frame. Can be resealed
Min Temp	-80°C	-80°C	-20°C	-80°C	-80°C	-20°C	-20°C	-200°C	-80°C	-20°C	-80°C	-195°C
Max Temp	80°C (or 110°C with pressurised PCR heated lid)	110°C	80°C (or 110°C with pressurised PCR heated lid)	90°C (or 110°C with pressurised PCR heated lid)	40°C	120°C	110°C	110°C	120°C	80°C	100°C	120°C
Piercable	•	•	•	•	•	•	•	•	•	•	•	•
Peelable	•	•	•	•	•	•	•	•	•	•	•	•
RNase / DNase free	•	•	•	•	•	•	•	•	•	•	•	•
Material	Laminate	Laminate	Polymer	Laminate	Laminate	Foil	Foil	Laminate	Foil	Woven material	Laminate	Laminate
Seals to	PP, PE, PS, COC	PP	PP, PE, PS, COC	PP, COC	PP, PE	PP, PS	PP, PS	PP	PS	PP, PS, COC	PP, PE, PS, COC	PP
4s3 sealing time with 96well PP Plates (°C/secs)^	175-185 / 2-3	175-185 / 2-3	165-175 / 3	175-185 / 3	175-185 / 3	160-175 / 2	165-180 / 2	170-180 / 2-3	-	170 / 2	175-185 / 2-3	175 / 3
4s3 sealing time with 384well PP Plates (°C/secs)^	165-180 / 3	170-175 / 2-3	165-175 / 2	170-175 / 2-3	170-175 / 2-3	160-175 / 2	165-175 / 2-3	160-170 / 2	-	170 / 2	165-180 / 3	-
4s3 sealing time with Vision Plates (°C/secs)^	185-200 / 3	-	175-185 / 2-3	-	-	185-200 / 3	185-200 / 3	-	185-200 / 3	170 / 2	185-200 / 3	-

## Product Codes

Roll 78mm1	4ti-0540	4ti-0573	4ti-0580	4ti-0520	4ti-0585	4ti-0530	4ti-0535	4ti-0590	4ti-0525	4ti-0598	4ti-0540/SLIT	-
Roll 78mm3	4ti-0540/REMP	4ti-0573/REMP	4ti-0580/REMP	4ti-0520/REMP	4ti-0585/REMP	4ti-0530/REMP	4ti-0535/REMP	4ti-0590/REMP	4ti-0525/REMP	4ti-0598/REMP	-	-
Roll 115mm2	4ti-0542	4ti-0574	4ti-0582	4ti-0522	4ti-0586	4ti-0532	4ti-0537	4ti-0592	4ti-0526	4ti-0599	4ti-0542/SLIT	-
Pack of 100 sheets (125mm x 78mm)	REMP	4ti-0541	REMP	4ti-0521	4ti-0587#	4ti-0531	4ti-0536	4ti-0592/REMP	4ti-0526/REMP	4ti-0599/REMP	4ti-0541/SLIT	4ti-0543

# Supplied on a perforated roll

- 1 Compatible with Thermo Fisher ALPS 300™ / ALPS3000™ / KBiosystems Chameleon™ / KBioscience FlexiSeal & Remp/Tecan Plate Sealers (PHSO)
- 2 Compatible with Agilent (Velocity II) PlateLoc®
- 3 Compatible with Remp-Portrait Heat Sealers (PHSO)
- 4 Compatible with Remp Landscape/Stacking Heat Sealers (LHS/SHS)

PP Polypropylene  
PS Polystyrene  
COC Cyclic Olefin Copolymer  
PE Polyethylene

NB

Some seals available as sterile on request. Rolls are also available on 150mm core for Remp/Tecan sealers. Please enquire.