

Data Sheet



Description: Peelable heat seal to PP and COC (COH) microplates. Can be peeled directly from the freezer. Good barrier resistance to aqueous solutions and solvents especially DMSO even at room temperature. Forms permanent seal to Polyethylene plates.

Catalogue Numbers: **HS-400**

Application: Low and room temperature Compound storage.

Sealing conditions: 3 seconds at 170 Deg. C

Seal Integrity Range: -80°C to 40°C

Storage conditions: Room temperature. Avoid direct exposure to light.

		Nom.-Value	Tol.
Polyester	µm	12	+1,6 / - 1,6
Aluminium	µm	8	
Peel Layer (PE)	µm	50	2%
Sealing strength	N/cm	>30	5%
Water vapour transmission rate	g/m².@ 38Deg.C & 90%RH	<0.1	
Oxygen transmission rate	ml/m².d.atm@23Deg.C & 60%H	<0.1	

Data Sheet



Description: Clear Polyester backed film forming a weld seal to Polypropylene microplate.

Catalogue Number: HS-100-QPCR

Application: Forms a seal to Polypropylene with good optical properties. Suitable for QPCR and other optical applications such as fluorescence or colorimetric measurements.

Sealing conditions: 3 seconds at 170 Deg. C.

Seal Integrity Range: -80°C to 110°C.

Storage conditions: Room temperature. Avoid direct exposure to light.

		Nom.-Value	Tol.
Surface weight	G/m ²	57	
Polyester	µm	19,00	+1,6 / - 1,6
Heat-seal layer	µm	30,00	+1,6 / - 1,6
Sealing strength	N/15mm	40	

Finished Dimensions		
	Polyester	CPP
Thickness	19 micron (+/- 5%)	30 micron (+/- 5%)
Total Thickness	52 micron (+/- 5%)	
Color	Clear	Clear
Surface Dyne Level	Good	
Acid Resistance	Good (mild acids only)	
Alkali Resistance	Good	
Heat Resistance	- 25°C to 115°C	
Oil Resistance	Good	
Light Stability	Very good protection, estimated life expectancy 35 years at 500 lux	
Water Transmission rate	Vapour 10g/m ² .d (38°C/90%)	
Gas Transmission rate	Oxygene 70cm ³ /m ² .d.atm (23°C/50%)	
Operating Temperature	130°C to 180°C	

Data Sheet

Description: Clear Polyester backed film forming a peelable seal to PP, PS and COC plates.

Catalogue Numbers: HS-150-QPCR

Application: Forms a clear peelable seal with good optical properties. Suitable for QPCR and other optical applications such as fluorescence or colorimetric measurements.

Sealing conditions: 3 seconds at 170 Deg. C.

Seal Integrity Range: -80°C to 80°C or 110°C with pressurised PCR heated lids.

Storage conditions: Room temperature. Avoid direct exposure to light.

Physical Properties:

Finished Dimensions	HS-150-QPCR	
	Polyester	Copolymer Adhesive
Thickness	50 micron (+/- 5%) 2 Thou	50 micron (+/- 5%) 2 Thou
Total Thickness	100 micron Thou (+/- 5%) 5 Thou	
Colour	Clear	Clear
Surface Dyne Level	Good	
Acid Resistance	Good (mild acids only)	
Alkali Resistance	Good	
Heat Resistance	- 25°C to 115°C	
Oil Resistance	Good	
Light Stability	Very good protection, estimated life expectancy 35 years at 500 lux	
Yellowing	None	
Applications	Indoor : under extreme conditions Outdoor : under mild conditions	
Operating Temperature	90°C to 110°C	
Sealing Strength	3-5N/15mm	

Data Sheet



Description: Peelable heat seal to PP and COC (COH) microplates. Can be peeled directly from the freezer. Good barrier resistance to aqueous solutions. Moderate resistance to solvents at room temperature. Forms a permanent seal to Polyethylene plates.

Catalogue Numbers: HS-200

Application: Low temperature compound storage. Short term (up to 5 days) room temperature compound storage. PCR.

Sealing conditions: 3 seconds at 170 Deg. C.

Seal Integrity Range: -200°C to 90°C or 110°C with pressurized PCR heated lids.

Storage conditions: Room temperature. Avoid direct exposure to light.

		Nom.-Value	Tol.
Polyester (white)	µm	12	+1,6 / - 1,6
Aluminium	µm	8	
Peel Layer	µm	50	2%
Sealing strength	N/cm	>30	5%
Water vapour transmission rate	g/m².@ 38Deg.C & 90%RH	<0.1	
Oxygen transmission rate	ml/m².d.atm@23Deg.C & 60%H	<0.1	

Data Sheet

Description:	Pierceable film seals to polypropylene plates with a very strong seal. The seal provides a very high degree of sample protection and good solvent resistance including resistance to DMSO when stored at room temperature or below.
Catalogue Numbers:	HS-300
Application:	<p>One seal can be applied on top of another allowing a sample to be accessed and then resealed.</p> <p>Pierce seal pierces easily with a force less than 5.0N (ASTM D1000)</p>
Sealing conditions:	3 seconds at 170 Deg. C..
Seal Integrity Range:	-80°C to 120°C
Storage conditions:	Room temperature. Avoid direct exposure to light.

		Nom.-Value	Tol.
Lacquer	G/M ²	1,00	+0,4 / - 0,4
Al-foil	µm	20,00	+1,6 / - 1,6
Heat seal lacquer	G/m ²	3,50	+0,9 / - 0,9
Sealing strength	N/15mm	> 5	