

Tel: +44 (0) 1306 884885 Fax: +44 (0) 1306 884886

Clear Heat Seal

Description: Peelable heat sealing film, optically clear; suitable for qPCR and optical applications.

Composition: Clear polyester backed film, forming a peelable seal to PP, PS and COC plates

Seal Type: Heat

Ordering Information:

4ti-0540	500 x 78mm roll Compatible with 4titude® a4S Automatic Roll Heat Sealer, Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Wasp™, KBioscience FlexiSeal and Cube Finished dimensions 480m x 78mm (splice free)
4ti-0540/80	80 m x 78 mm roll Compatible with 4titude® a4S Automatic Roll Heat Sealer with duct cover
4ti-0540/REMP	500 x 78mm roll Compatible with REMF Portrait Heat Sealer (PHS)
4ti-0542	350 x 115mm roll Compatible with Agilent (Velocity 11) PlateLoc® Finished dimensions 350m x 115mm (splice free)
4ti-0542/REMP	350 x 115mm roll Compatible with REMF Landscape / Stacking Heat Sealers (LHS/SHS)
4ti-0541	100 sheets (125 x 78mm) Supplied interleaved with dust-free paper for improved handling
4ti-0541/FS	50 FrameSeal™ stackable frames

Application: qPCR, and other optical applications (e.g. fluorescence / colorimetric), short term compound storage


Certification: Free from human genomic DNA, nucleases and pyrogens.

Seal Integrity Range: -80°C to 80°C (110°C with pressurised PCR heated lid)

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

Material Safety Data: Non-hazardous

Schematic Overview:



Sealing Parameters[^]

96-well PCR Plate	175-185°C, 2-3 seconds
384-well PCR Plate	165-180°C, 3 seconds
Vision Plate™	185-200°C, 3 seconds

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Physical Properties:

Thickness:	Polyester:	50µm (±5%)
	Copolymer Adhesive:	50µm (±5%)
	<i>Total:</i>	100µm (±5%)
Colour:	Polyester:	Clear
	Copolymer Adhesive:	Clear
Light Stability:	Very good.	Estimate 35 years at 500 lux.
Oil Resistance:	Good	
Acid Resistance:	Good	(mild acids only)
Alkali Resistance:	Good	
Surface Dyne Level:	Good	
Heat Resistance:	-25°C to 115°C	
Yellowing:	None	
Seal Strength	3 to 5N/15mm	

^These are recommended sealing conditions with the 4s3™ heat sealer.