





Parameter	Specification	
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 78 mm roll Compatible with Automated Roll Heat Sealer, Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Wasp™, KBioscience FlexiSeal and Cube Finished dimensions 480 m x 78 mm (splice free).
	4ti-0540/80	80 m x 78 mm roll Compatible with Automated Roll Heat Sealer with ductcover.
	4ti-0540/REMP	500 x 78 mm roll Compatible with REMF Portrait Heat Sealer (PHS).
	4ti-0542	350 x 115 mm roll Compatible with Agilent (Velocity 11) PlateLoc® Finished dimensions 350 m x 115 mm (splice free).
	4ti-0542/REMP	350 x 115 mm roll Compatible with REMF Landscape / Stacking Heat Sealers(LHS/SHS)
	4ti-0541	100 sheets (125 x 78 mm) 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	<div><div><div>Outer Surface</div><div></div><div>Sealing Surface</div></div><div><div>Polyester 50 µm</div><div>Adhesive 50 µm</div></div></div>	

 <b>AZENTA</b> LIFE SCIENCES	<b>CLEAR HEAT SEAL DATA SHEET</b>	<b>SEV-0018 REVISION B 14 SEP 2023</b>
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Parameter	Specification		
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	
Physical Properties	Thickness	Polyester Copolymer Adhesive Total	50 µm (±5%) 50 µm (±5%) 100 µm (±5%)
	Colour	Polyester Copolymer Adhesive	Clear Clear
	Light Stability	Very good.	Estimate 35 years at 500 lux.
	Oil Resistance	Good	
	AcidResistance	Good (mild acids only)	
	AlkaliResistance	Good	
	Surface Dyne Level	Good	
	HeatResistance	-25°C to 115°C	
	Yellowing	None	
	Seal Strength	3 to 5N/15 mm	

*\*These are recommended sealing conditions for the 4s3™ heat sealer.*