



AZENTA
LIFE SCIENCES

UNIVERSAL PEEL HEAT SEAL DATA SHEET

SEV-0049
REVISION B
14 SEP 2023

Parameter	Specification		
Description	Peelable heat-sealing foil with wide material compatibility; suitable for low temperature storage, high temperature uses and PCR.		
Composition	Aluminium based foil heat that seals to a wide variety of materials including PP, PS, PC and COC microplates and PE. Moderate resistance to solvents. Re-sealable with another Universal Peel Seal. Pierceable with needles, but not with standard pipette tips.		
Seal Type	Heat.		
Ordering Information	4ti-0523	610 m x 78 mm roll Compatible with Automated Roll Heat Sealer / Thermo Fisher ALPS 300™ / ALPS 3000™/ KBiosystems Wasp™, KBioscience FlexiSeal and Cube	
	4ti-0524	500 m x 115 mm roll Compatible with Agilent (Velocity 11) PlateLoc®	
	4ti-05231	100 sheets (125 mm x 78 mm)	
Application	Low temperature compound storage. High temperature uses. PCR.		
Certification	Free from human genomic DNA, nucleases, and pyrogens.		
Storage Conditions	Room temperature (10-27 °C). Avoid direct exposure to light and high humidity.		
Material Safety Data	Non-hazardous.		
Schematic Overview			
Seal Integrity Range	-80 °C to 90 °C (110 °C with a pressurised PCR heated lid)		
Sealing Parameters	96-well PCR Plate (PP)	175-185 °C, 3 seconds	
	384-well PCR Plate (PP)	170-175 °C, 2-3 seconds	
	Vision Plate™ (PS)	175-180 °C, 2-3 seconds	
	384-well Ultra Vision Plate™ (COC)	180-185 °C, 2-3 seconds	
Physical Properties	Thickness	Polyester	12.00 µm
		Aluminium	8.00 µm
		Peel Layer	40.00 µm
Physical Properties	Total Thickness	67 µm	
	Total Weight	83,5 g/m ²	

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	Oxygen Transmission Rate	<0.1ml/m ²	23°C and 60% RH
	Water Vapor Transmission Rate	<0.1g/m ²	38°C and 90% RH

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

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Surrey Hills Business Park, Damphurst Lane, Wotton, Surrey, RH5 6QT, United Kingdom | Tel: +44. (0).1306.884.885