

Adhesive Sealing Consumables Comparison Table

	Clear Seals			Foil Seals			Cross-cut Seals
Name	PCR Seal	Optically Clear Windowed qPCR Seal	qPCR Adhesive Seal	PCR Foil Seal	PCR Foil Seal Strong	DMSO Resistant Foil Seal	Pierceable Film Strong Adhesive, 96 Cross-Cut Windows
Specifications							
Application	PCR	qPCR, fluorescence 96-well microplates only	qPCR & other fluorescent applications Imaging techniques incl. crystallisation Plate readers, microscopy	PCR & sample storage Incubations	High temperature incubations & low temperature storage	Microplate sealing containing solvents incl. DMSO	Sample application or retrieval 96 well plates only
Special Properties	Good optical clarity	Discreet optical windows for 96-well plates	Good optical clarity	Irregular tearing when pierced prevents formation of vacuum	Strong adhesive	High solvent resistance	Cross-cut reduces tip or probe becoming clogged
Seal Integrity Min Temperature	-20°C	-20°C	-80°C	-40°C	-80°C	-20°C	-20°C
Seal Integrity Max Temperature	110°C	110°C	110°C	120°C	110°C	80°C	110°C
Gas Permeability Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Moisture Vapor Transmission Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gamma Irradiated							
Pierceable				✓	✓		✓
Peelable	✓	✓	✓	✓	✓	✓	✓
RNase/DNase free	✓	✓	✓	✓	✓	✓	✓
Product Codes							
Code	4ti-0500	4ti-0565	4ti-0560	4ti-0550	4ti-0500FL	4ti-0512	4ti-0566
Format	Sheets	Sheets	Sheets	Sheets	Sheets	Sheets	Sheets
Dimensions	135 mm x 80 mm	133 mm x 76 mm	140 mm x 77 mm	130 mm x 80 mm	137 mm x 80 mm	122 mm x 80 mm	135 mm x 77 mm
Code	4ti-0500/8		4ti-0561				
Format	Perforated sheets		Roll				
Dimensions	115 mm x 100 mm		100 mm x 80 mm				
Code	4ti-0500/12		4ti-0561/S				
Format	Perforated sheets		Sample roll				
Dimensions	137 mm x 71 mm		5 m x 80 mm				
Code	4ti-0500/HP		4ti-0560/HP				
Format	Half plate sheets		Half plate sheets				
Dimensions	70 mm x 80 mm		70 mm x 77 mm				



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	Permeable Seals			
Name	Moisture Barrier Seal 24, 96, 384	Cell Culture Adhesive Seal	Microplate Seal Low Strength Adhesive Film	Double Sided Re-Sealable Adhesive Film
Specifications				
Application	Eukaryotic cell culture, bacterial culture and long-term live assays Suitable for use on plate readers	Bacterial or cell culture	Aqueous sample storage	Diagnostic kit production
Special Properties	Gas permeable that allows air and CO ₂ exchange, but prevents moisture evaporation Optically clear	Very low moisture transfer rate Suitable for bacterial or cell culture Air porosity: 10 sec/100 cc/in ²	Medium strength transparent seal	Two sealing surfaces Optical windows
Seal Integrity Min Temperature	-20°C	-20°C	-20°C	-20°C
Seal Integrity Max Temperature	80°C	80°C	80°C	110°C
Gas Permeability Rate	0.6 m ³ /m ² /day	8,900 m ³ /m ² /day	N/A	N/A
Moisture Vapor Transmission Rate	1 g/m ² /day	4,200 g/m ² /day	N/A	N/A
Gamma Irradiated	✓	✓		
Pierceable	✓			
Peelable	✓	✓	✓	✓
RNase/DNase free	✓	✓	✓	✓
Product Codes				
Code	4ti-0516/24	4ti-0517	4ti-0510	4ti-0519
Format	Sheets	Sheets	Sheets	Sheets
Dimensions	137 mm x 80 mm	135 mm x 80 mm	130 mm x 80 mm	148 mm x 98 mm
Code	4ti-0516/96	4ti-0517/ST		
Format	Sheets	Sheets, gamma treated		
Dimensions	137 mm x 76 mm	135 mm x 80 mm		
Code	4ti-0516/384			
Format	Sheets			
Dimensions	137 mm x 76 mm			
Code				
Format				
Dimensions				



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