

## Adhesive Sealing Consumables Comparison Table

	Clear Seals			Foil Seals			Cross-cut Seals
<b>Name</b>	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
<b>Specifications</b>							
<b>Application</b>	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
<b>Special Properties</b>	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
<b>Seal Integrity Min Temperature</b>	-20°C	-20°C	-80°C	-40°C	-80°C	-20°C	-20°C
<b>Seal Integrity Max Temperature</b>	110°C	110°C	110°C	120°C	110°C	80°C	110°C
<b>Gas Permeability Rate</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Moisture Vapor Transmission Rate</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Gamma Irradiated</b>							
<b>Pierceable</b>				✓	✓		✓
<b>Peelable</b>	✓	✓	✓	✓	✓	✓	✓
<b>RNase/DNase free</b>	✓	✓	✓	✓	✓	✓	✓
<b>Product Codes</b>							
<b>Code</b>	4ti-0500	4ti-0565	4ti-0560	4ti-0550	4ti-0500FL	4ti-0512	4ti-0566
<b>Format</b>	Sheets	Sheets	Sheets	Sheets	Sheets	Sheets	Sheets
<b>Dimensions</b>	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
<b>Code</b>	4ti-0500/8		4ti-0561				
<b>Format</b>	Perforated sheets		Roll				
<b>Dimensions</b>	115 mm x 100 mm		100 m x 80 mm				
<b>Code</b>	4ti-0500/12		4ti-0561/S				
<b>Format</b>	Perforated sheets		Sample roll				
<b>Dimensions</b>	137 mm x 71 mm		5 m x 80 mm				
<b>Code</b>	4ti-0500/HP		4ti-0560/HP				
<b>Format</b>	Half plate sheets		Half plate sheets				
<b>Dimensions</b>	70 mm x 80 mm		70 mm x 77 mm				



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	Permeable Seals			
<b>Name</b>	Moisture Barrier Seal 24, 96, 384	Cell Culture Adhesive Seal	Microplate Seal Low Strength Adhesive Film	Double Sided Re-Sealable Adhesive Film
<b>Specifications</b>				
<b>Application</b>	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
<b>Special Properties</b>	Gas permeable that allows air and CO <sub>2</sub> 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 <sup>2</sup>	Medium strength transparent seal	Two sealing surfaces Optical windows
<b>Seal Integrity Min Temperature</b>	-20°C	-20°C	-20°C	-20°C
<b>Seal Integrity Max Temperature</b>	80°C	80°C	80°C	110°C
<b>Gas Permeability Rate</b>	0.6 m <sup>3</sup> /m <sup>2</sup> /day	8,900 m <sup>3</sup> /m <sup>2</sup> /day	N/A	N/A
<b>Moisture Vapor Transmission Rate</b>	1 g/m <sup>2</sup> /day	4,200 g/m <sup>2</sup> /day	N/A	N/A
<b>Gamma Irradiated</b>	✓	✓		
<b>Pierceable</b>	✓			
<b>Peelable</b>	✓	✓	✓	✓
<b>RNase/DNase free</b>	✓	✓	✓	✓
<b>Product Codes</b>				
<b>Code</b>	4ti-0516/24	4ti-0517	4ti-0510	4ti-0519
<b>Format</b>	Sheets	Sheets	Sheets	Sheets
<b>Dimensions</b>	137 mm x 80 mm	135 mm x 80 mm	130 mm x 80 mm	148 mm x 98 mm
<b>Code</b>	4ti-0516/96	4ti-0517/ST		
<b>Format</b>	Sheets	Sheets, gamma treated		
<b>Dimensions</b>	137 mm x 76 mm	135 mm x 80 mm		
<b>Code</b>	4ti-0516/384			
<b>Format</b>	Sheets			
<b>Dimensions</b>	137 mm x 76 mm			
<b>Code</b>				
<b>Format</b>				
<b>Dimensions</b>				