Brooks LIFE SCIENCES

Adhesive Sealing Consumables Comparison Table

	Clear Seals			Foil Seals			Cross-cut Seals		Cross-cut Seals	Permeable Seals				
Name	PCR Seal	O-Stick™ qPCR Seal	qPCR Seal	PCR Foil Seal	PCR Foil Seal Strong	DMSO Resistant Foil	Pierceable Film		Pierceable Film 384	Moisture Barrier Seal 24, 96, 384	Air-O-Seal	Microplate Seal	InterSeal	Name
Specifications														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		Sample application or retrieval 384 well plates only	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	Application
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		Cross-cut reduces tip or probe becoming clogged Good solvent resistance, including DMSO	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/in²	Medium strength transparent seal	Two sealing surfaces Optical windows	Special Properties
Seal Integrity Min Temperature	-20°C	-20°C	-80°C	-40°C	-80°C	-20°C	-20°C		-80°C	-20°C	-20°C	-20°C	-20°C	Seal Integrity Min Temperature
Seal Integrity Max Temperature	110°C	110°C	110°C	120°C	110°C	80°C	110°C		120°C	80°C	80°C	80°C	110°C	Seal Integrity Max Temperature
Gas Permeability Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	0.6 $m^3/m^2/day$	8,900 $m^3/m^2/day$	N/A	N/A	Gas Permeability Rate
Moisture Vapour Transmission Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	1 $g/m^2/day$	4,200 $g/m^2/day$	N/A	N/A	Moisture Vapour Transmission Rate
Sterile										✓	✓			Sterile
Pierceable				✓	✓		✓		✓	✓				Pierceable
Peelable	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	Peelable
RNase/DNase free	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	RNase/DNase free
Product Codes														Product Codes
Code	4ti-0500	4ti-0565	4ti-0560	4ti-0550	4ti-0500FL	4ti-0512	4ti-0566		4ti-0566/384	4ti-0516/24	4ti-0517	4ti-0510	4ti-0519	Code
Format	Sheets	Sheets	Sheets	Sheets	Sheets	Sheets	Sheets		Sheets	Sheets	Sheets	Sheets	Sheets	Format
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		117 mm x 80 mm	140 mm x 80 mm	135 mm x 80 mm	130 mm x 80 mm	148 mm x 98 mm	Dimensions
Code	4ti-0500/8		4ti-0561							4ti-0516/96	4ti-0517/ST			Code
Format	Perforated sheets		Roll							Sheets	Sheets, sterile			Format
Dimensions	115 mm x 100 mm		100 m x 80 mm							137 mm x 80 mm	135 mm x 80 mm			Dimensions
Code	4ti-0500/12		4ti-0561/S							4ti-0516/384				Code
Format	Perforated sheets		Sample roll							Sheets				Format
Dimensions	137 mm x 71 mm		5 m x 80 mm							137 mm x 80 mm				Dimensions
Code	4ti-0500/HP		4ti-0560/HP											Code
Format	Half plate sheets		Half plate sheets											Format
Dimensions	70 mm x 80 mm		70 mm x 77 mm											Dimensions