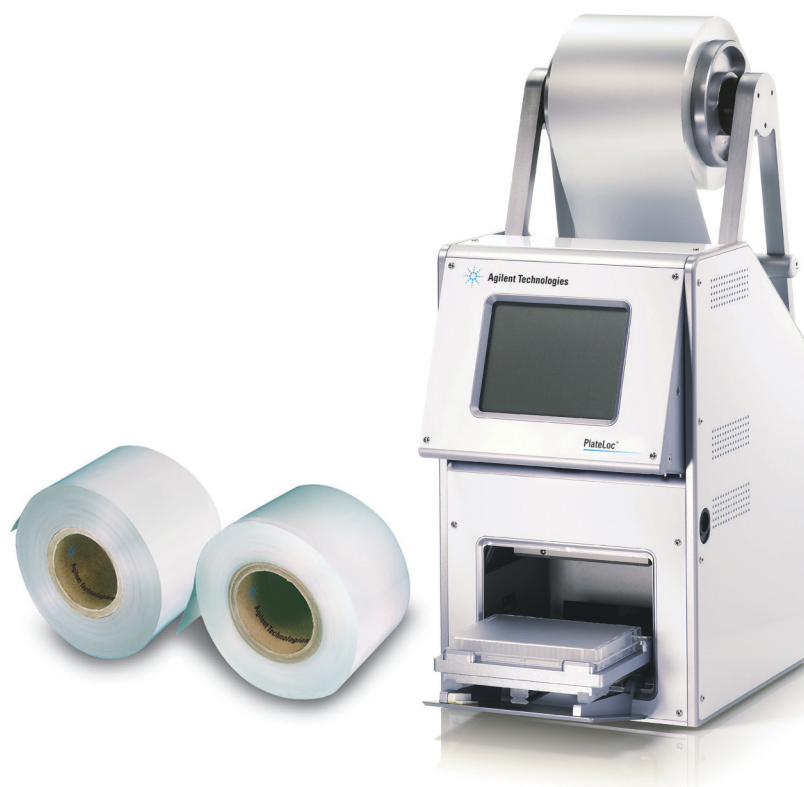


Agilent PlateLoc Thermal Microplate Sealer Consumables



	Peelable aluminum	Peelable aluminum RT*	Pierceable aluminum	Clear peelable seal	Clear pierceable thin seal	Clear permanent seal
Product number	24210-001	24214-001	06644-001	16985-001	17318-001	24212-001
ADHESION						
Peelable	✓	✓		✓	✓	
Permanent			✓			✓
APPLICATIONS						
Compound storage, low temp (0 °C to -80 °C)	✓	✓		Short Term (Hours to daily) – not for long term storage	Short Term (Hours to daily) – not for long term storage	
Compound storage, room temp (0 °C to +40 °C)		✓**				
Sanger DNA sequencing (for example, ABI 3730)					✓	✓
APPLICATIONS (Typical)						
PCR	✓	✓	✓	✓	✓	✓
PCR/qPCR						
Optically clear for qPCR				✓	✓	✓
DIMENSIONS (sealing film on roll)						
Core diameter	76.2 mm (3") ID	76.2 mm (3") ID	76.2 mm (3") ID	76.2 mm (3") ID	76.2 mm (3") ID	76.2 mm (3") ID
Length of roll	457.2 m (1500 ft)	457.2 m (1500 ft)	500 m (1640 ft)	200 m (656 ft)	370 m (1213 ft)	500 m (1640 ft)
Length used per plate	78 mm (3.07")	78 mm (3.07")	78 mm (3.07")	78 mm (3.07")	78 mm (3.07")	78 mm (3.07")
Plates/roll (min)	5,000	5,000	5,000	2,000	4,700	5,000
Roll diameter	241.3 mm (9.5")	255 mm (10.04")	160 mm (6.3")	203.2 mm (8")	203.2 mm (8")	208 mm (8.2")
Thickness	0.0591 mm (0.002")	0.0700 mm (0.0028")	0.025 mm (0.00098")	0.125 mm (0.005")	0.0762 mm (0.003")	0.049 mm (0.002")
Width	115 mm (4.53")	115 mm (4.53")	115 mm (4.53")	115 mm (4.53")	115 mm (4.53")	115 mm (4.53")
MICROPLATE COMPATIBILITY, AGILENT PLATELOC SEALING CONDITIONS/GUIDELINES (Heat sealing compatible microplates feature a raised rim or "chimney" surrounding each sample well and flat sealing surfaces. Conditions below are starting point recommendations for microplate sealing optimization—plate design can play a significant role in the ideal sealing conditions. Microplates of the same material may require different settings, based on thickness/geometry, etc. Optimize time and temperature parameters for each plate type before use. Use the lowest temperature and shortest time period possible for best results. If warped microplates or plates that do not lie flat are a challenge, or if you experience non-uniformity in seal quality, try Agilent's PlateLoc Flexible Inserts Product Number 15818-002.)						
Cyclic olefin copolymer (COC)	190 °C; 2.5 sec	185 °C; 1.5 sec				
Polypropylene	170 °C; 1.2 sec	175 °C; 1.5 sec	Best Results with Polypropylene 170 °C; 1.2 sec	110 °C; 1–1.2 sec	110 °C; 1–1.2 sec	Permanent 175 °C; 1.2–2 sec
Polystyrene	185 °C; 1.2 sec	Not Compatible	No Data Available	No Data Available	No Data Available	

	Peelable aluminum	Peelable aluminum RT*	Pierceable aluminum	Clear peelable seal	Clear pierceable thin seal	Clear permanent seal
Product number	24210-001	24214-001	06644-001	16985-001	17318-001	24212-001
OPTICAL PROPERTIES						
Autofluorescence	NA	NA	NA	Non-detected	Non-detected	Non-detected
Optically clear (plate reader compatible)	NA	NA	NA	✓	✓	✓
Transparent, visually	NA	NA	NA	✓	✓	✓
PHYSICAL PROPERTIES						
Appearance	White top, reflective bottom	Uncolored aluminum foil	Reflective top and bottom	Opaque unsealed, transparent sealed	Opaque unsealed, transparent sealed	Clear unsealed, clear sealed
Cross contamination/leakage resistant	✓	✓	✓	✓	✓	✓
Evaporation resistant	✓	✓	✓	✓	✓	✓
Material	Multilayer aluminum foil/polymer laminate	Multilayer aluminum foil/polymer laminate	Aluminum foil w/ thermal sealant layer	Multilayer polymer laminate	Multilayer polymer laminate	Multilayer polymer laminate
O ₂ Barrier	Excellent	Excellent		Good	Good	Good
H ₂ O Vapor barrier	Excellent	Excellent	Excellent	Good	Good	Good
PIERCEABILITY						
Seal piercer			✓		✓	
Metal tip/probe					✓ (Some, e.g. ABI 3730)	
Handheld pipettor plastic tips	Fair		✓			
THERMAL PROPERTIES						
Seal integrity range	-80 °C to Plate Softening	-80 °C to 40 °C**	-20 °C to 80 °C	-20 °C to 120 °C	-20 °C to 120 °C	-80 °C to 110 °C

* Before using the Peelable Aluminum RT heat seal, determine if your PlateLoc Thermal Microplate Sealer requires an adjustment to ensure compatibility. PlateLoc instruments manufactured before 2011 may require adjustment by an Agilent Field Service Engineer. Please contact Agilent Automation Technical Support for more details.

** Room temperature storage of 100 % DMSO for 12 months. Short term resistance to 40 °C for a few weeks.

PlateLoc Seal Selection Guide Notes

Tested Microplates. These data were generated using the following microplates or equivalent:

- Polypropylene Microplate: Greiner, 650201 (96-well, round well, round bottom)
- Polystyrene Microplate: Greiner, 655101 (96-well, round well, round bottom)

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