

qPCR adhesive plate seals

high degree of optical clarity

suited for real time PCR applications

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Cat#: I2248



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Description

	Non-tacky to skin and gloves, peelable, non-pierceable, non-sterile
	100 sheets (140mm x 77mm, including 7mm perforated finger tabs)
Application	qPCR <ul style="list-style-type: none"> High degree of optical clarity for ease of read through. Little or no auto-fluorescence for high degree of light transmission. Chemically inert extractables except at extreme pH. Adheres well to wide range of substrates.
Sealing Technique	For all adhesive seals the best sealing results are achieved using a hand held pressure roller.
Seal integrity Range	-40°C up to 110°C (with pressurised heated PCR lid).
Storage conditions	Room temperature. Avoid direct exposure to light and high humidity.
Material safety data	Non-hazardous.
Certification	Free from human genomic DNA, RNA, nucleases and pyrogens.

Schematic view



Note:

I2248 qPCR sealing foil is a pressure sensitive seal which has a proprietary pressure sensitive adhesive mechanism that ensures adhesive is only released when the seal comes into contact with the raised well rims.

Advantages:

- Easy positioning during application (the seal is freely maneuverable until pressure is applied).
- Adhesive does not come into contact with samples.
- Enhanced optical clarity as adhesive is not present in the area above the wells.
- No sticky residue on the plate when the seal is peeled off.

Physical properties

Backing	Polyethylene film of 0.05mm (typical).
Adhesive	Pressure sensitive silicone film of 0.05mm (typical).
Release Liner	White fluoro-silicone coated polyester film of 0.05mm (typical).
Adhesion to Steel	Min. 13.9N/25mm
Liner Release	Max. 0.5N/25mm
Light transmission	93.3% at 700nm (typical) 92.4% at 400nm (typical)
Solvent Extractables (typical)	DMSO: 30µg/mL siloxanes <0.5µg/mL antioxidant <0.5µg/mL other EtOH:H ₂ O: 30µg/mL siloxanes 80:20 <0.5µg/mL antioxidant <0.5µg/mL other ACN:H ₂ O: 30µg/mL siloxanes 80:20 <0.5µg/mL antioxidant <0.5µg/mL other

Application Instructions

1. Peel off the white backing liner. Do not remove end tabs!
2. Lay the seal across the plate.
3. Exert pressure, specifically over the rims, using a Adhesive Seal Roller.

NOTE:

Bond strength is dependent on application pressure, so sufficient pressure must be applied for a well sealing!