



Technical Data Sheet

Product: PCRSEAL-OA

Product Information

Product Name:	Optical Clear qPCR Sealing Film — Pressure-Sensitive Adhesive (Model A)
Product Code:	PCRSEAL-OA
Version:	VI
Date:	June 2026

Features

- Designed for Real-Time PCR (qPCR) applications
- Ultra-clear optical film with consistent, high light transmission for stable fluorescence data
- Pressure-sensitive adhesive — not tacky until firm pressure is applied along well rims
- Dual adhesive system (acrylic + silicone PSA) for secure, clean sealing
- No applicator or heat required; sealing paddle or PCRSEALER tool recommended
- Small-bag packaging (10 per sealed bag) minimizes cross-contamination
- Compatible with all standard 96-well and 384-well plates with raised rims

Product Specifications

Dimensions	Length: 141.4 ±0.5 mm Width: 79.3 ±0.5 mm Thickness: 0.1 ±0.01 mm
Color	Clear (optically transparent)
Material	Backing: OPP (Oriented Polypropylene) Adhesive: Acrylic PSA + Silicone PSA Release Liner: PET Film, Fluorine
Adhesion Strength	Steel: 15.6 N/25 mm Polypropylene: 10.7 N/25 mm
Operating Temperature	−80°C to +120°C
Packaging	10 films/sealed bag, 10 bags/box, 20 boxes/carton
Storage	Room temperature, cool and dry, out of direct sunlight

Purity Certification (Per Lot)

PCR Inhibitor-Free	$R^2 \geq 0.99$, efficiency 90–110%
Human DNA-Free	< 0.5 pg/μL
DNase / RNase-Free	Certified per lot
ATP-Free	< 10^{-13} mg/μL
Non-Pyrogenic	< 0.004 EU/mL, LAL tested per USP <85>, <161>





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Regulatory Compliance

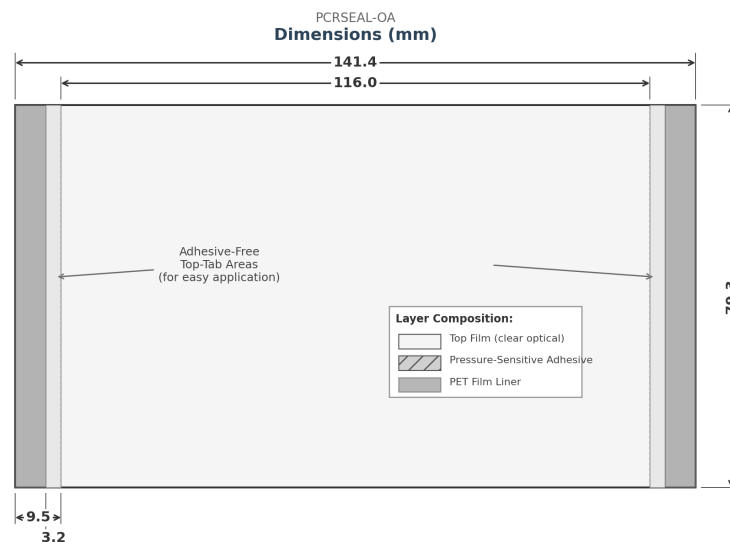
- U.S. FDA 21 CFR 177.1520 3.2a — film material tested and compliant
- RoHS 2011/65/EU — confirmed non-heavy metal
- REACH (EC) No 1907/2006 — non-SVHC
- Manufactured under ISO 9001:2015 and ISO 13485:2016 certified quality management system

Cross-Reference

PCRSEAL-OA is a functional replacement for:

- Applied Biosystems® 4311971
- Bio-Rad® Microseal® “C” (MSC1001)
- Excel Scientific™ ThermalSeal™ TSS-RTQ-100

Product Drawing



Notices

For Research Use Only. Not for use in diagnostic procedures.

Manufactured to PCRSeal OEM specifications under ISO 9001:2015 and ISO 13485:2016 certified quality management system.

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References are for cross-reference and compatibility purposes only.

