



## PX1™ PCR Plate Sealer and Heat Sealing Consumables



# Easy and Reliable Plate Sealing



## User Friendly

Quick and easy, from programming to sealed plate

- Intuitive touch-screen interface
- Quick sealing with the touch of a button
- Optimized sealing protocols for easy storage and use

## Fastest Heat Up Time

Avoid delaying an experiment waiting for your sealer to heat up. The innovative heater design allows the PX1 PCR plate sealer to reach sealing temperature in less than 3 minutes.



Bio-Rad PX1



Competitor A



Competitor B

## Eliminate Effects of Sample Evaporation from All Your PCR Workflows



Experimental setup



Seal your plate with the touch of a button



Real-time PCR



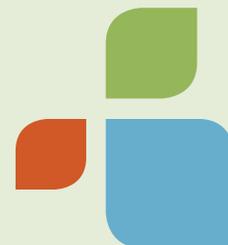
Droplet Digital™ PCR



PCR

# Confidence in Your Results

Minimized sample evaporation improves reproducibility and productivity.



## Trust your results

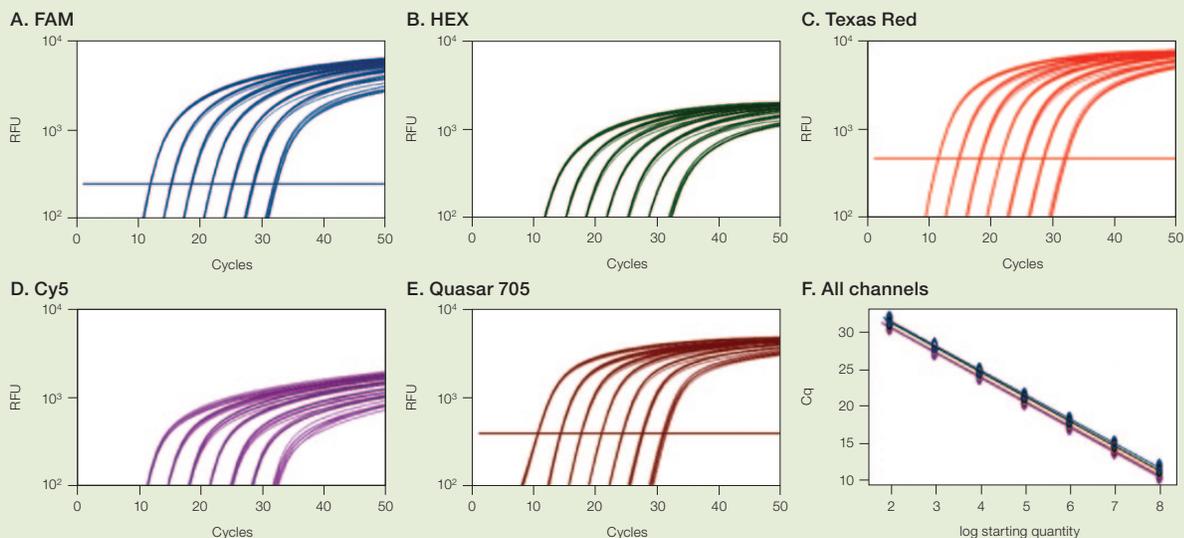
Avoid complications in data interpretation due to sample evaporation.

## Avoid repeating experiments

Minimize the need to repeat experiments resulting from sample loss.

## Save time

Use fully validated Bio-Rad heat seals and PCR plastics to easily integrate the PX1 PCR plate sealer into your workflow.



The optically clear heat seal prevents sample evaporation that can lead to large Cq standard deviations. Five-color multiplex linearity test demonstrates highly reliable qPCR results. **A–E**, fluorescence data from a series of tenfold dilutions of plasmid DNA ( $10^8$ – $10^2$  copies) amplified using reporter dyes to monitor five targets. The standard curves of five multiplexed genes have an  $R^2 > 0.990$ . **F**, standard curves generated from data in A–E. Reaction efficiencies are between 90 and 105%. Cq, quantification cycle; RFU, relative fluorescence units.

## A Complete Selection of Heat Seals

Bio-Rad heat seals help deliver reliable data by minimizing sample evaporation. Choose from a selection of fully validated seals ideal for a broad range of PCR applications.



### Optically Clear Heat Seal

- Ideal for real-time PCR
- Excellent optical clarity
- Peelable for easy sample retrieval
- Compatible with PCR



### Permanent Clear Heat Seal

- Ideal for water bath cycling
- Compatible with PCR
- High solvent resistance



### Pierceable Foil Heat Seal

- Fully validated for the QX100™ Droplet Digital™ PCR system workflow
- Easily pierceable with a pipet tip
- User friendly — colored stripe clearly identifies sealing surface
- Compatible with PCR



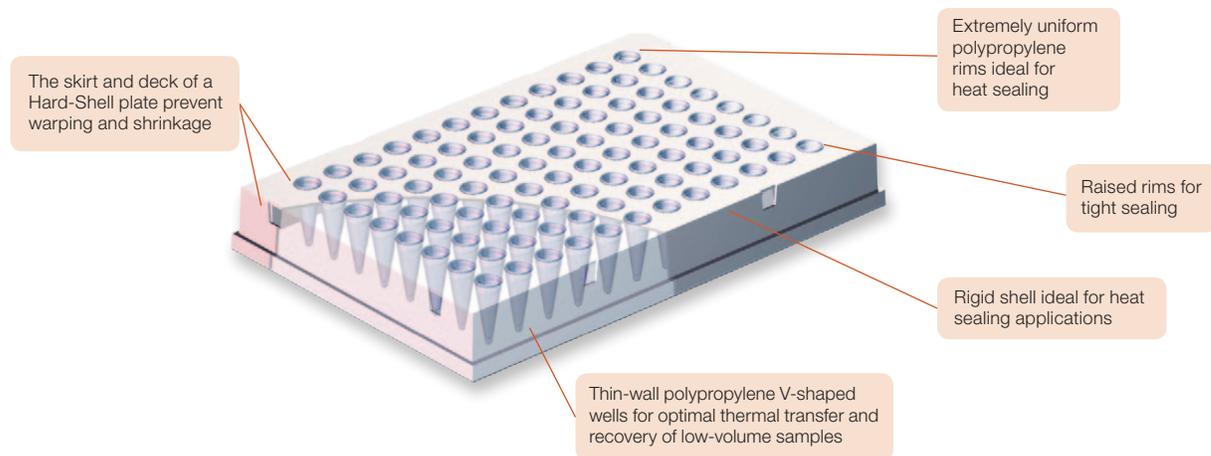
### Peelable Foil Heat Seal

- Ideal for low-temperature sample storage
- Can be easily peeled from microplates stored in a  $-80^{\circ}\text{C}$  freezer or in liquid nitrogen
- Compatible with PCR

# Hard-Shell® Plates Are Ideal for Heat Sealing

Hard-Shell PCR plates are specifically designed to withstand the stresses of heat sealing, thermal cycling, and robotic handling. Hard-Shell PCR plate features include:

- Rigid polycarbonate shell provides superior stability and flatness that aids in the heat sealing process
- Fully validated for use with the PX1 PCR plate sealer
- Patented Hard-Shell technology prevents plate distortion during thermal cycling
- Thin-wall wells are molded from virgin polypropylene selected for low DNA binding
- Black lettering for easy well identification



## Ordering Information

Catalog # Description

### PX1 PCR Plate Sealer and Seals

181-4000	<b>PX1 PCR Plate Sealer</b> , includes heat sealing instrument, 96-well/384-well plate support block, sealing frame, power cord
181-4030	<b>Optically Clear Heat Seal</b> , package of 100 seals
181-4035	<b>Permanent Clear Heat Seal</b> , package of 100 seals
181-4040	<b>Pierceable Foil Heat Seal</b> , package of 100 seals
181-4045	<b>Peelable Foil Heat Seal</b> , package of 100 seals

### Hard-Shell Plates

HSP-9601	<b>Hard-Shell Low-Profile 96-Well Skirted PCR Plates</b> , clear well, white shell, 50
HSS-9601	<b>Hard-Shell High-Profile 96-Well Semi-Skirted PCR Plates</b> , clear well, clear shell, 25
HSL-9601	<b>Hard-Shell Low-Profile 96-Well Semi-Skirted PCR Plates</b> , clear well, clear shell, 25

HSR-9901	<b>Hard-Shell 96-Well 480 PCR Plates</b> , clear well, clear shell, bar-coded, 25
HSP-3801	<b>Hard-Shell 384-Well Standard PCR Plates</b> , clear well, clear shell, 50
HSR-4801	<b>Hard-Shell 384-Well 480 PCR Plates</b> , clear well, clear shell, bar-coded, 50

For additional plate options and instrument compatibility charts, please request bulletin 5496.

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Practice of the polymerase chain reaction (PCR) may require a license.

Hard-Shell plates are covered by one or more of the following U.S. patents or their foreign counterparts owned by Eppendorf AG: U.S. Patent Numbers 7,347,977; 6,340,589; and 6,528,302.



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