Pierceable Foil Heat Seal

Catalog #181-4040

The pierceable foil heat seal is a peelable and pierceable seal ideal for PCR and sample storage. This seal has been independently validated for the QX100[™] Droplet Digital[™] PCR system workflow. Plates with pierced seals can be resealed* with another pierceable foil heat seal.

Features

- Forms a complete seal with polypropylene and polystyrene** materials
- Has seal integrity from -20 to 110°C
- Demonstrates high solvent resistance
- Is nonhazardous
- Can be stored at room temperature; avoid direct exposure to light
- Certified RNase and DNase free

Directions for Use

Note: Optimize sealing parameters in an empty plate prior to completing experimental workflows.

- Place a microplate in the plate support block and position it correctly on the open PX1™ PCR plate sealer drawer.
- Carefully remove a seal from the bag and place it on the plate so that the colored line is facing up.

Note: It is not necessary to use the sealing frame with this seal.

 Seal the plate. For suggested sealing parameters, refer to Sealing Guidelines for Pierceable Foil Heat Seal.



^{*} Resealing a plate already sealed with a pierceable foil heat seal typically requires a longer sealing time. Repeated sealing makes it more difficult to peel off the original seal.

^{**} Limited and variable compatibility based on plastic composition.

Sealing Guidelines for Pierceable Foil Heat Seal*

Product	Catalog Number	Number of Wells	Well Color	Temperature, °C	Time, sec
Hard-Shell® 384-well standard PCR plates	HSP-3xxx	384	Clear White	170 170	3 3
Hard-Shell 384-well 480 PCR plates	HSR-4xxx	384	Clear White	170 170	3
Hard-Shell low-profile 96-well skirted PCR plates	HSP-9xxx	96	Clear White	175 175	3
Hard-Shell high-profile 96-well semi-skirted PCR plates	HSS-9xxx	96	Clear White	170 175	3 3
Multiplate [™] low-profile 96-well unskirted PCR plates	MLL-9xxx	96	Clear White	175 175	3
Multiplate high-profile 96-well unskirted PCR plates	MLP-9xxx	96	Clear White	175 175	3
iQ™ 96-well PCR plates	223-9441	96	Clear	185	3

^{*} Resealing a plate already sealed with a pierceable foil heat seal typically requires a longer sealing time. Repeated sealing makes it more difficult to peel off the original seal. ** Sealing time may be extended for plates used in the QX100 Droplet Digital PCR system workflow.

Heat Sealing Film Comparison Chart

Product	Catalog Number	Key Features	Compatibility
Optically clear heat seal	181-4030	Validated for real-time PCRPeelable	PP, COC, PE,* PS
Permanent clear heat seal	181-4035	 Strongest heat sealing option Ideal for water bath cycling Validated for PCR** 	PP
Pierceable foil heat seal	181-4040	 Validated for use with the QX100 Droplet Digital PCR system Validated for PCR 	PP, PS*
Peelable foil heat seal	181-4045	Ideal for sample storageValidated for PCR	PP, COC*

^{*} Limited and variable compatibility based on plastic composition. ** Not recommended for real-time PCR. COC, cyclic olefin copolymer; PE, polyethylene; PP, polypropylene; PS, polystyrene.

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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