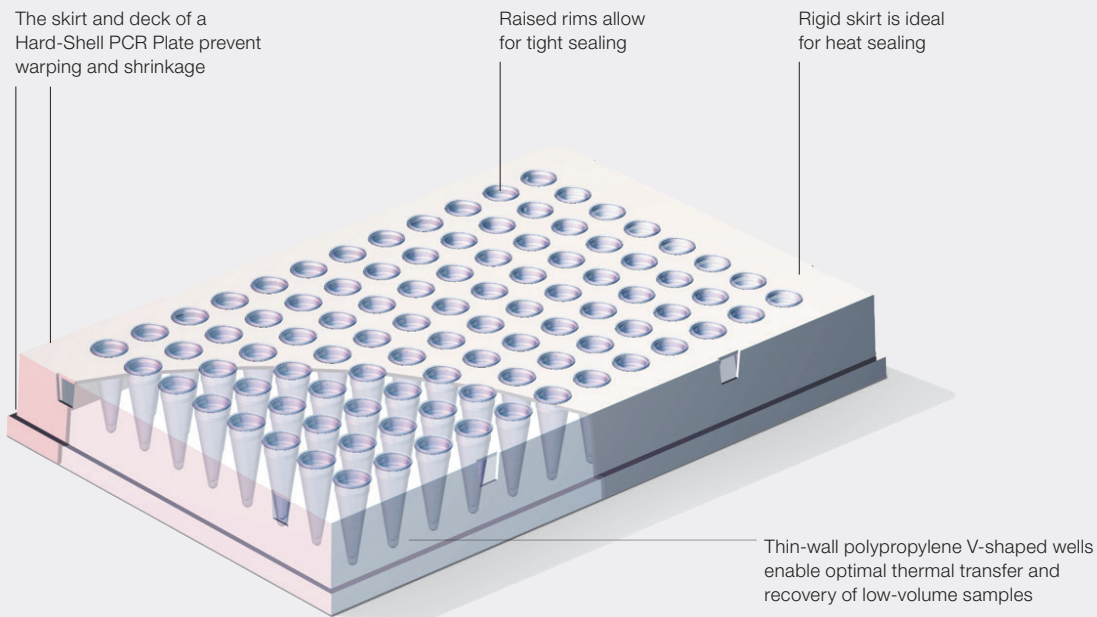


## Hard-Shell™ 96-Well PCR Plates




- Low-Profile Skirted
- High-Profile Semi-Skirted
- Low-Profile Semi-Skirted

Hard-Shell PCR Plates represent an innovative concept in PCR plate design. The skirt and deck are molded from a rigid thermostable polymer, preventing robotic handling problems that arise from plate warping. This hard shell prevents the distortion and shrinkage that may occur when regular single-component polypropylene PCR plates are exposed to the high temperatures of thermal cycling or heat sealing. The thin-wall wells are molded of virgin polypropylene selected for low DNA binding. The raised rims around each well allow tight sealing using a variety of procedures, including pressure-, adhesive-, and heat-sealing methods.

### Features of Hard-Shell PCR Plates



## Hard-Shell PCR Plate Compatibility Chart

	Low-Profile 96-Well Skirted PCR Plates	High-Profile 96-Well Semi-Skirted PCR Plates	Low-Profile 96-Well Semi-Skirted PCR Plates
			
Catalog number	HSP9xxx	HSS9xxx	HSL9xxx
Well height	Low-profile	High-profile	Low-profile
Skirt	Full-skirted	Semi-skirted	Semi-skirted
Maximum well volume	200 µl	350 µl	200 µl
ANSI/SBS standard dimensions	Yes	No	Yes
Autoclave specification	121°C, 20 min		
Centrifuge specification	Up to 2,250 x g in a swing-out rotor		
Application temperature	-80 to 121°C		
Storage	Room temperature; avoid sun and ultraviolet light		
Cleanroom production	Free of DNase, RNase, and human DNA		
<b>Thermal Cycler Compatibility</b>			
C1000, C1000 Touch, S1000, PTC Tempo 96, PTC Tempo Deepwell, DNA Engine, DNA Engine Tetrad, DNA Engine Tetrad 2, DNA Engine Dyad, Dyad Disciple, PTC-100	•	•	•
T100, iCycler		•	
<b>Real-Time PCR Detection System Compatibility</b>			
CFX Opus 96, CFX Opus 96 Dx, CFX Duet, CFX Connect, CFX96, CFX96 Touch, CFX96 Touch Deep Well	•		•
CFX Opus Deepwell, CFX Opus Deepwell Dx, DNA Engine Opticon, DNA Engine Opticon 2	•		
iCycler iQ, iQ5, MyiQ, MyiQ2		•	
Chromo4	•	•	

## Ordering Information

Catalog #	Description	Catalog #	Description
<b>Hard-Shell Low-Profile 96-Well Skirted PCR Plates</b>			
HSP9601	White shell/clear well, 50	HSL9645	Green shell/white well, 25
HSP9901	White shell/clear well, barcoded, 50	HSL9601	Clear shell/clear well, 25
<b>Seals and Accessories</b>			
HSP9611	Red shell/clear well, 50	MSA5001	Microseal™ 'A' PCR Plate Sealing Film, nonadhesive, 50
HSP9621	Yellow shell/clear well, 50	MSB1001	Microseal 'B' PCR Plate Sealing Film, adhesive, optical, 100
HSP9631	Blue shell/clear well, 50	MSC1001	Microseal 'C' PCR Plate Sealing Film, adhesive, optical, 100
HSP9641	Green shell/clear well, 50	MSF1001	Microseal 'F' PCR Plate Film, foil, pierceable, 100
HSP9661	Black shell/clear well, 50	MSR0001	Film Sealing Roller for PCR Plates
HSP9655	White shell/clear well, 50	1814000	PX1 PCR Plate Sealer
HSP9955	White shell/white well, barcoded, 50	1814030	PCR Plate Heat Seal, for PX1 Sealer, clear, optical, 100
HSP9665	Black shell/white well, 50	1814035	PCR Plate Heat Seal, for PX1 Sealer, clear, permanent, 100
HSP9635	Blue shell/white well, 50	1814040	PCR Plate Heat Seal, for PX1 Sealer, foil, pierceable, 100
HSP9645	Green shell/white well, 50	1814045	PCR Plate Heat Seal, for PX1 Sealer, foil, peelable, 100
HSP9666	Black shell/black well, 50	TCS0801	0.2 ml Domed PCR Tube 8-Cap Strips, clear, 130
<b>Hard-Shell High-Profile 96-Well Semi-Skirted PCR Plates</b>			
HSS9601	Clear shell/clear well, 25	TCS0803	0.2 ml Flat PCR Tube 8-Cap Strips, optical, ultraclear, 120
HSS9641	Green shell/clear well, 25	TCS1201	0.2 ml Domed PCR Tube 12-Cap Strips, optical, clear, 200
HSS9901	Clear shell/clear well, barcoded, 25		
HSS9665	Black shell/white well, 25		
<b>Hard-Shell Low-Profile 96-Well Semi-Skirted PCR Plates</b>			
HSL9601	Clear shell/clear well, 25		
HSL9901	Clear shell/clear well, barcoded, 25		
HSL9641	Green shell/clear well, 25		
HSL9605	Clear shell/white well, 25		
HSL9905	Clear shell/white well, barcoded, 25		

Please request bulletin 5496 for more information about Hard-Shell PCR Plates, including dimension details, and bulletin 6090 for more information about seals and accessories.

Visit [bio-rad.com/PCRPlastics](http://bio-rad.com/PCRPlastics) for more information.

BIO-RAD, HARD-SHELL, and MICROSEAL are trademarks of Bio-Rad Laboratories, Inc. in certain jurisdictions. All trademarks used herein are the property of their respective owner. © 2023 Bio-Rad Laboratories, Inc.



**Bio-Rad  
Laboratories, Inc.**

Life Science  
Group

Website [bio-rad.com](http://bio-rad.com) USA 1 800 424 6723 Australia 61 2 9914 2800 Austria 00 800 00 24 67 23 Belgium 00 800 00 24 67 23 Brazil 4003 0399 Canada 1 905 364 3435 China 86 21 6169 8500 Czech Republic 00 800 00 24 67 23 Denmark 00 800 00 24 67 23 Finland 00 800 00 24 67 23 France 00 800 00 24 67 23 Germany 00 800 00 24 67 23 Hong Kong 852 2789 3300 Hungary 00 800 00 24 67 23 India 91 124 4029300 Israel 0 3 9636050 Italy 00 800 00 24 67 23 Japan 81 3 6361 7000 Korea 82 080 007 7373 Luxembourg 00 800 00 24 67 23 Mexico 52 555 488 7670 The Netherlands 00 800 00 24 67 23 New Zealand 64 9 415 2280 Norway 00 800 00 24 67 23 Poland 00 800 00 24 67 23 Portugal 00 800 00 24 67 23 Russian Federation 00 800 00 24 67 23 Singapore 65 6415 3188 South Africa 00 800 00 24 67 23 Spain 00 800 00 24 67 23 Sweden 00 800 00 24 67 23 Switzerland 00 800 00 24 67 23 Taiwan 886 2 2578 7189 Thailand 66 2 651 8311 United Arab Emirates 36 1 459 6150 United Kingdom 00 800 00 24 67 23

