

Symmetrical Seal

SPP Profile, Standard PolyPak®

Catalog EPS 5370/USA

SPP Profile, Standard PolyPak®, Square Cross-Section O-ring Energized Lip Seal



Parker's Standard PolyPak is a squeeze seal with a symmetrical profile for use in either rod or piston applications. The standard Molythane® shell provides high wear resistance and the O-ring energizer functions as a spring to maintain sealing contact under low pressure. The Standard PolyPak utilizes a scraper lip design formed by a precision trimming process. The scraper edge wipes both fluid film and contamination away from the seal. A wide selection of sizes and alternate compounds allow this profile to match up with many hydraulic applications. The Standard PolyPak is an economical choice as a stand alone rod or piston seal. With less squeeze force than the Deep or Type B profiles, the Standard PolyPak can be installed back to back, in separate glands, for bi-directional sealing. To protect against pressure trapping, it is recommended that the O-ring be removed from the Standard PolyPak facing the lower pressure side of the application.

Technical Data

Standard Materials*	Temperature Range	Pressure Range†	Surface Speed
Shell			
P4615A90	-65°F to 200°F (-54°C to 93°C)	5000 psi (345 bar)	< 1.6 ft/s (0.5 m/s)
P4622A90	-65°F to 225°F (-54°C to 107°C)	5000 psi (345 bar)	< 1.6 ft/s (0.5 m/s)
Z4651D60	-65°F to 275°F (-54°C to 135°C)	7000 psi (482 bar)	< 1.6 ft/s (0.5 m/s)
N4263A90	-20°F to 275°F (-29°C to 135°C)	2000 psi (138 bar)	< 1.6 ft/s (0.5 m/s)
E4207A90	-65°F to 300°F (-54°C to 149°C)	2000 psi (138 bar)	< 1.6 ft/s (0.5 m/s)
V4208A90	-5°F to 400°F (-21°C to 204°C)	2250 psi (155 bar)	< 1.6 ft/s (0.5 m/s)
V4266A95	-5°F to 400°F (-21°C to 204°C)	2250 psi (155 bar)	< 1.6 ft/s (0.5 m/s)



Standard PolyPak Cross-Section

Energizer

For Seals With...

4615 or 4622 PolyPak shell
4651 PolyPak shell
Rubber PolyPak shell

Standard Energizer Material*

Standard energizer is a nitrile O-ring
O-spring energizer code must be identified
Standard energizer is an O-ring from the same rubber material family as the shell

***Alternate Materials:** For custom energizer materials, see Table 6-3. For applications that may require an alternate shell material, please see Section 3 or contact your local Parker Seal representative.

†Pressure Range without wear rings (see Table 2-4, page 2-5).

09/01/07