

PORON® ShockSeal™ Series (4790-79): General Industrial Grades

Extreme Impact Protection, Ultimate Reliability

PORON® ShockSeal™ foams are a trusted solution in sensitive handheld devices, and are available to the general industrial markets. This thick grade material is ideal for applications which require gaskets, cushions, spacers or springs. ShockSeal materials perform best in environments where impact protection, long-term reliability, and high compression set resistance is a must. ShockSeal Foams absorb up to EIGHT times more impact than the competition!

Excellent Impact Protection

Industrial grade PORON ShockSeal foam (1.57mm – 12.7mm thick) is still the undisputed champ of impact force mitigation!

When comparing a handful of competitive foams to a 30 cm drop, ShockSeal materials reduce the impact better than any of the rest (see first graph to the right).

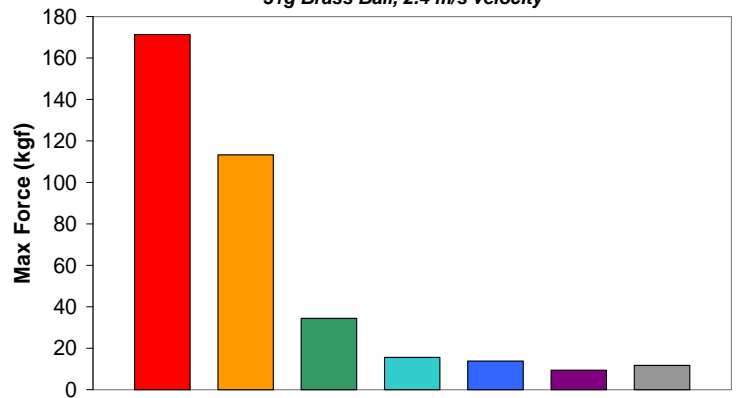
When comparing these same materials to an even greater impact, a 152 cm drop, the PORON ShockSeal foams truly shine, **performing four times better than the next closest competitor** (See the second graph to the right).

Make an Impact!

Visit the Rogers Impact Prediction Tool:
www.rogerscorp.com/impactprediction

Impact Protection Comparison (30 cm Drop)

31g Brass Ball, 2.4 m/s velocity

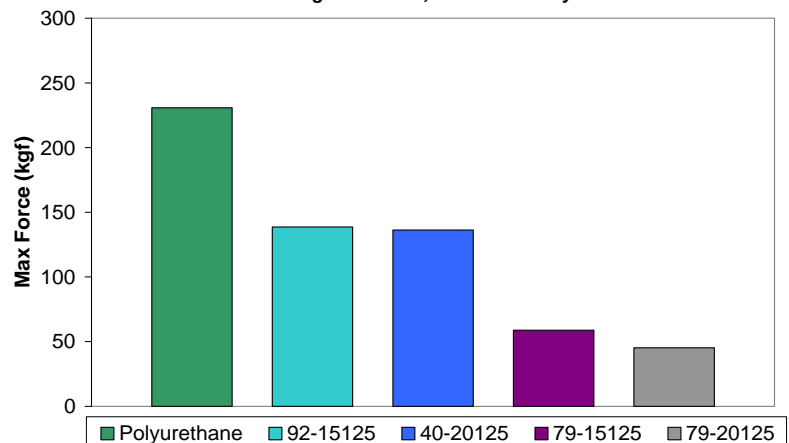


■ EPDM ■ PVC/NBR Blend ■ Polyurethane ■ 92-15125
■ 40-20125 ■ 79-15125 ■ 79-20125

Please Note: The “max force” is representative of the impact the sensor experiences upon collision with the brass ball. The lower the “max force” detected, the better the material protects against impacts.

Impact Protection Comparison (152 cm Drop)

31g Brass Ball, 5.5 m/s velocity



■ Polyurethane ■ 92-15125 ■ 40-20125 ■ 79-15125 ■ 79-20125

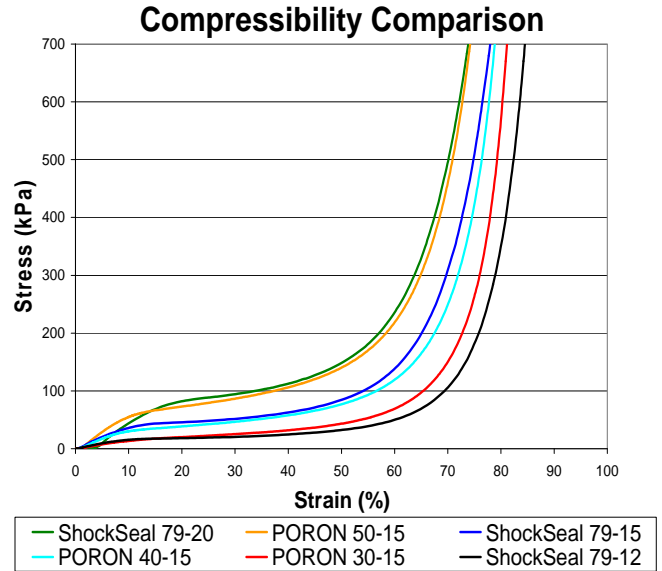
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High Compressibility

The ShockSeal series of materials offers the same outstanding compressibility as other general industrial grades of PORON foams.

ShockSeal materials exhibit a very unique quality in their inherent compressibility. By simply selecting a different density offering from the ShockSeal family, the resulting compressibility of the foam behaves similarly to differing PORON foam formulations.

According to the graph to the right, 12 pcf (192 kg/m³) ShockSeal foam has a compressibility that is similar to that of PORON 30 formulation. Additionally, 15 pcf (240 kg/m³) ShockSeal foam has a compressibility that is very similar to that of PORON 40 formulation, and 20 pcf (320 kg/m³) and has a compressibility that is nearly identical to that of PORON 50 formulation.



Above: Notice how PORON ShockSeal materials of varied densities compare to different PORON formulations.

ShockSeal foams span the firmness range of many industrial PORON formulations. This characteristic helps provide superior impact protection across a wide spectrum of compressibility.

Long Term Protection and Sealing

PORON ShockSeal materials maintain the same excellent properties of the PORON family of foams, which enables them to maintain spring forces and effectively seal out dust and other particles.

Additionally, industrial grades of ShockSeal materials are recognized by UL Gasketing and Sealing (UL50E/UL508) and Federal Motor Vehicle Safety Standards 302 (FMVSS 302) specifications. For additional information, please see the ShockSeal materials data sheet.

Certified	Specification
	UL Gasketing & Sealing
	FMVSS 302*

* See the product data sheets for additional information.

Have a gap to fill?
Visit the Rogers Gap Filling Tool:
www.rogerscorp.com/gapfillingtool

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