

## Rogers Corporation Poron® 4790-92-30012 P Urethane Foam, Extra Soft, Slow Rebound, PET Film Reinforced

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane Foam, Unreinforced

### Material Notes:

Extra soft, slow rebound with a very low closure force. Available with thickness of 0.012" (0.30 mm). Features and Benefits of PORON Products: Excellent compression set resistance which enables durable, long-term performance for gasketing, sealing, and cushioning. Low-outgassing and non-fogging, containing no plasticizers or residual chemicals to contaminate the device. The material will not become brittle and crumble and is non-corrosive to metal. Inherently flame retardant without the use of additives. Many of the materials meet flammability requirements of UL HBF and MVSS 302. Engineered urethane formulations offering a wide modulus range - 2-90 psi @ 25% deflection – for more design versatility requirements. Good chemical resistance. Easy to fabricate, die-cuts cleanly and works with a broad range of adhesives. Applications:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Rogers-Corporation-Poron-4790-92-30012-P-Urethane-Foam-Extra-Soft-Slow-Rebound-PET-Film-Reinforced.php](http://www.lookpolymers.com/polymer_Rogers-Corporation-Poron-4790-92-30012-P-Urethane-Foam-Extra-Soft-Slow-Rebound-PET-Film-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	0.481 g/cc	0.0174 lb/in <sup>3</sup>	ASTM D3574-95 Test A
	1.39 g/cc	0.0503 lb/in <sup>3</sup>	Supporting material; ASTM D1505
Thickness	305 microns	12.0 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength	207 MPa	30000 psi	MD, supporting material; ASTM D882
Tensile Strength, Yield	103 MPa	15000 psi	F5, supporting material; ASTM D882
Elongation at Break	150 %	150 %	supporting material; ASTM D882
Tensile Modulus	3.45 GPa	500 ksi	MD, supporting material; ASTM D882
Compressive Yield Strength	0.0165 - 0.0938 MPa @Strain 25.0 %	2.40 - 13.6 psi @Strain 25.0 %	0.2"/min. strain rate
Coefficient of Friction, Dynamic	0.40	0.40	A/B, supporting material; ASTM D1894
Compression Set	4.0 % @Temperature 23.0 °C	4.0 % @Temperature 73.4 °F	ASTM D1667-90 Test D
	10 % @Temperature 70.0 °C	10 % @Temperature 158 °F	ASTM D3574-95 Test D

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Shrinkage, MD	@Temperature 150 °C, Time 2340 sec	@Temperature 302 °F, Time 0.650 hour	supporting material
Shrinkage, TD	0.00 % @Temperature 150 °C, Time 2340 sec	0.00 % @Temperature 302 °F, Time 0.650 hour	supporting material

## Contact Songhan Plastic Technology Co.,Ltd.

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