

## Rogers Corporation Poron® 4790-92-09 Urethane Foam, Extra Soft, Slow Rebound, PET Reinforced

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

### Material Notes:

Extra soft, slow rebound with a very low closure force. Standard available thickness range from 0.021" to 0.500" (0.53 mm to 12.7 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. Broad range of formulas and thicknesses from 0.012" to 0.500" (0.43mm to 12.7mm). Applications:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Rogers-Corporation-Poron-4790-92-09-Urethane-Foam-Extra-Soft-Slow-Rebound-PET-Reinforced.php](http://www.lookpolymers.com/polymer_Rogers-Corporation-Poron-4790-92-09-Urethane-Foam-Extra-Soft-Slow-Rebound-PET-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	0.144 g/cc	0.00521 lb/in <sup>3</sup>	ASTM D3574-95 Test A
	1.395 g/cc	0.05040 lb/in <sup>3</sup>	supporting material; ASTM D1505
Thickness	508 - 991 microns	20.0 - 39.0 mil	Range of Thicknesses Available

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	0.00172 - 0.00931 MPa @Strain 25.0 %	0.250 - 1.35 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	10 % @Temperature 70.0 °C	10 % @Temperature 158 °F	ASTM D3574-95 Test D

Thermal Properties	Metric	English	Comments
Shrinkage, MD	1.2 %	1.2 %	supporting material

Thermal Properties	Metric @Temperature 150 °C, Time 2340 sec	English @Temperature 302 °F, Time 0.650 hour	Comments
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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