

Rogers Corporation Poron® 4790-92-12 P Series 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. 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 0.02" to 0.059" (0.50 mm to 1.50 mm). Applications:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-Poron-4790-92-12-P-Series-Urethane-Foam-Extra-Soft-Slow-Rebound-PET-Film-Reinforced.php

Physical Properties	Metric	English	Comments
Density	0.192 g/cc	0.00694 lb/in ³	ASTM D3574-95 Test A
	1.39 g/cc	0.0503 lb/in ³	Supporting material; ASTM D1505
Thickness	508 - 1500 microns	20.0 - 59.0 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 - 0.0172 MPa @Strain 25.0 %	0.250 - 2.50 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	5.0 % @Temperature 23.0 °C	5.0 % @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
Shrinkage, MD	1.2 % @Temperature 150 °C, Time 2340 sec	1.2 % @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

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