

Rogers Corporation Poron® 4790-79SP-15012 Urethane Shock Pad Foam

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

Material Notes:

Information provided by Rogers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-Poron-4790-79SP-15012-Urethane-Shock-Pad-Foam.php

Physical Properties	Metric	English	Comments
Density	0.240 g/cc	0.00868 lb/in ³	ASTM D3574-95 Test A
Thickness	27.9 - 43.2 microns	1.10 - 1.70 mil	Supported Adhesive
	191 - 343 microns	7.50 - 13.5 mil	Urethane Foam
	229 - 381 microns	9.00 - 15.0 mil	Total Construction

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	78 %	78 %	ASTM D882
	74 % @Temperature 66.0 °C, Time 346000 sec	74 % @Temperature 151 °F, Time 96.0 hour	80% RH; ASTM D882
Film Elongation at Break, TD	32 %	32 %	ASTM D882
	66 % @Temperature 66.0 °C, Time 346000 sec	66 % @Temperature 151 °F, Time 96.0 hour	80% RH; ASTM D882
Compressive Yield Strength	0.0299 MPa	4.34 psi	0.2"/min. strain rate
	@Strain 25.0 %	@Strain 25.0 %	
Tear Strength	0.310 kN/m	1.77 pli	Peel Adhesion, 180° Peel, to Polypropylene; ASTM D1000
	@Time 1190 sec	@Time 0.330 hour	
	0.320 kN/m	1.83 pli	Peel Adhesion, 180° Peel, to Stainless Steel; ASTM D1000
	@Time 1190 sec	@Time 0.330 hour	
	0.320 kN/m	1.83 pli	Peel Adhesion, 180° Peel, to Polypropylene; ASTM D1000
	@Time 259000 sec	@Time 72.0 hour	
	0.330 kN/m	1.88 pli	Peel Adhesion, 180° Peel, to ABS; ASTM D1000
	@Time 1190 sec	@Time 0.330 hour	
	0.330 kN/m	1.88 pli	Peel Adhesion, 180° Peel, to Acrylic;

Mechanical Properties	Metric @Time 1190 sec	English @Time 0.330 hour	ASTM D1000 Comments
	0.340 kN/m @Time 1190 sec	1.94 pli @Time 0.330 hour	Peel Adhesion, 180° Peel, to Polycarbonate; ASTM D1000
	0.360 kN/m @Time 259000 sec	2.05 pli @Time 72.0 hour	Peel Adhesion, 180° Peel, to Stainless Steel; ASTM D1000
	0.390 kN/m @Time 259000 sec	2.23 pli @Time 72.0 hour	Peel Adhesion, 180° Peel, to ABS; ASTM D1000
	0.390 kN/m @Time 259000 sec	2.23 pli @Time 72.0 hour	Peel Adhesion, 180° Peel, to Acrylic; ASTM D1000
	0.404 kN/m @Time 259000 sec	2.31 pli @Time 72.0 hour	Peel Adhesion, 180° Peel, to Polycarbonate; ASTM D1000
Compression Set	2.0 % @Temperature 70.0 °C	2.0 % @Temperature 158 °F	ASTM D3584-95
	<= 10 % @Temperature 70.0 °C	<= 10 % @Temperature 158 °F	ASTM D3584-95
Seal Strength	9.40 g/25 mm	9.40 g/in	Release Adhesion, 180° Peel; ASTM D1000
	10.6 g/25 mm @Temperature 66.0 °C, Time 346000 sec	10.6 g/in @Temperature 151 °F, Time 96.0 hour	Release Adhesion, 180° Peel, 80% RH; ASTM D1000

Descriptive Properties	Value	Comments
Tack	411 g	ASTM D2979 (1 second dwell), 96 hours at 66°C/80% RH
	424 g	ASTM D2979 (1 second dwell)
Tensile, CMD (lb) per ASTM D882	5	80% RH; 66°C; 96 hr
	9.1	
Tensile, MD (lb) per ASTM D882	11.4	80% RH; 66°C; 96 hr
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