

Rogers Corporation Poron® 4701-40-30 Cellular Urethane Foam

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane Foam, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Information on this material is preliminary. Standard color is black (04); others are available. Passes fogging test SAE-J 1736 for 3 hrs. at 100°C (212°F). General Poron® information: Poron® foams are supplied in continuous rolls and can easily be fabricated: die-cut, slit, machined, and laminated. Key properties include excellent resistance to compression set, high energy absorption, low outgassing, resistance to temperatures, bondable surface, low hydrolysis, no plasticizers, high internal strength and dimensional stability, and chemical resistance. Information supplied by Rogers Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Rogers-Corporation-Poron-4701-40-30-Cellular-Urethane-Foam.php

Physical Properties	Metric	English	Comments
Density	0.400 g/cc	0.0145 lb/in ³	±10%; ASTM D3574A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25	25	ASTM D2240
Hardness, Shore O	34	34	ASTM D2240
Tensile Strength, Ultimate	>= 0.829 MPa	>= 120 psi	ASTM D3574E
Elongation at Break	>= 100 %	>= 100 %	ASTM D3574E
Compressive Yield Strength	0.104 - 0.276 MPa	15.1 - 40.0 psi	at 25% deflection; 0.2"/min strain rate
Tear Strength	>= 2.10 kN/m	>= 12.0 pli	Die C; ASTM D624
Compression Set	<= 2.0 %	<= 2.0 %	23°C; ASTM D1667 test D
	<= 5.0 %	<= 5.0 %	Test D after autoclaved 5 hrs.; ASTM D3574J
	@Temperature 121 °C	@Temperature 250 °F	
	<= 10 %	<= 10 %	ASTM D3574 test D
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	230 - 310 µm/m-°C	128 - 172 µin/in-°F	ASTM C518
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	90.0 °C	194 °F	Recommended continuous use

Electrical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Electrical Resistivity Electrical Properties	1.00e+12 ohm-cm Metric	1.00e+12 ohm-cm English	ASTM D257 Comments
Surface Resistance	2.00e+12 ohm	2.00e+12 ohm	ASTM D257
Dielectric Constant	1.71	1.71	K' ("DK"); ASTM D150; relative humidity 50% for 24 hrs.
Dielectric Strength	2.00 kV/mm	50.8 kV/in	ASTM D149
Dissipation Factor	0.050	0.050	tan D ("DF"); ASTM D150

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China