



PORON® Polyurethanes

Elastomeric Material Solutions  
www.rogerscorp.com

Typical Product Properties  
Based on global test methods

**PORON® 4701-50 Firm**

PROPERTY	TEST METHOD	TYPICAL VALUE		
<b>PHYSICAL</b>				
Density, kg /m <sup>3</sup> (lb / ft <sup>3</sup> )	ASTM D 3574-95, Test A	240 (15)	320 (20)	480 (30)
Tolerance, %		± 10		
Thickness, mm (inches)		4.78 (0.188)	1.57 (0.062)	0.43 (0.017)
		6.35 (0.250)	2.36 (0.093)	0.51 (0.020)
		9.53 (0.375)	3.18 (0.125)	0.79 (0.031)
		12.70 (0.500)		1.14 (0.045)
Tolerance, %		± 10		± 20
Standard Color (Code)		Black (04)		
Compression Force Deflection, kPa (psi)	ISO 6916-1 30mm/min Strain Rate Force Measured @ 25% Deflection	66 (10)	128 (19)	273 (40)
Compression Set, % max.	ISO 1856 Test A @ 70°C	0.8%	2.2%	2.0%
Dimensional Stability, % max. change	22 hrs @ 80°C in a forced-air oven	± 1		
<b>ELECTRICAL</b>				
Dielectric Strength, kV/mm	IEC 243-1	2.0	2.6	2.5
Volume Resistivity, ohm-cm	IEC 60093	1.83E+13	3.72E+14	8.91E+13
Surface Resistivity, ohm/sq	IEC 60093	1.40E+14	1.27E+14	2.15E+14
<b>TEMPERATURE RESISTANCE</b>				
Recommended Constant Use, max.	UL 157	90°C		
Recommended Intermittent Use, max.	UL 157	121°C		
Embrittlement	ISO 974(E)	-44°C		
<b>FLAMMABILITY AND OUTGASSING</b>				
Flammability	UL 94HBF (File E20305) Min. thickness Passed, mm (in)	4.78 (0.188)	1.57 (0.062)	N/A
	ISO 3795, DIN 75200 Min. thickness Passed, mm (in) Max. burn rate (mm/min)	4.78 (0.188) 34	1.57 (0.062) 81	1.14 (0.045) 82
	MVSS 302 (Pass ≥) Min. thickness Passed, mm (in)	4.78 (0.188)	1.57 (0.062)	1.14 (0.045)
	Fogging	ISO 6452, DIN 75201	PASS	PASS
<b>ENVIRONMENTAL</b>				
Gasketing and Sealing	UL JMST2 (Consisting of UL50 and UL508)	File MH15464		

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.

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