



PORON® Polyurethanes



Authorized Distributor,
Converter, and Fabricator
www.jbc-tech.com

Elastomeric Material Solutions
www.rogerscorp.com

Typical Product Properties
Based on global test methods

PORON® 4701-50 Firm

PROPERTY	TEST METHOD	TYPICAL VALUE		
PHYSICAL				
Density, kg /m ³ (lb / ft ³)	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		
ELECTRICAL				
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
TEMPERATURE RESISTANCE				
Recommended Constant Use, max.	UL 157	90°C		
Recommended Intermittent Use, max.	UL 157	121°C		
Embrittlement	ISO 974(E)	-44°C		
FLAMMABILITY AND OUTGASSING				
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
ENVIRONMENTAL				
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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