

PORON® 4701-50 Firm (Unsupported)

Based on Global Test Methods

PROPERTY	TEST METHOD	TYPICAL VALUE		
PHYSICAL				
Density, kg/m³ (lb./ft³)	ASTM D3574-95, Test A	240 (15)	320 (20)	480 (30)
Tolerance, %			± 10	
Thickness, mm (inches)		4.78 (0.188)		0.43 (0.017)
		6.35 (0.250)	1.57 (0.062)	0.51 (0.020)
		9.53 (0.375)	2.36 (0.093)	0.79 (0.031)
		12.7 (0.500)	3.18 (0.125)	1.14 (0.045)
Tolerance, %		± 10	± 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 (158°F)	0.8	2.2	2.0
Dimensional Stability, % max change	22 hrs @ 80°C (176°F) 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 (194°F)		
Recommended Intermittent Use, max.	UL 157	121°C (250°F)		
Embrittlement	ISO 974 (E)	-44°C (-47°F)		



The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of PORON Polyurethane Foam Materials for each application. The Rogers logo, PORON, and the PORON logo are trademarks of Rogers Corporation or one of its subsidiaries. © 2016, 2023 Rogers Corporation. All rights reserved. 0223-PDF • Publication #17-321 www.rogerscorp.com

PROPERTY	TEST METHOD	TYPICAL VALUE		
FLAMMABILITY AND OUTGASSING		240 (15)	320 (20)	400 (25)
Flammability, mm (inches)	UL 94HBF* (File E20305)			
	Min. Thickness Passed, mm (in)	4.78 (0.188)	1.57 (0.062)	-
	ISO 3795, DIN 75200			
	Min. Thickness Passed, mm (in)	4.78 (0.188)	1.57 (0.062)	1.14 (0.045)
	Max. Burn Rate (mm/min)	34	81	82
	FMVSS 302 (Pass ≥)			
Fogging	Min. Thickness Passed, mm (in)	4.78 (0.188)	1.57 (0.062)	1.14 (0.045)
	ISO 6452, DIN 75201	PASS	PASS	PASS
ENVIRONMENTAL				
Gasketing & Sealing	UL JMST2 (Consisting of UL50 & UL508)	File MH15464		

Notes:

*Designed to meet UL 94 HBF based upon 2022 test criteria. As of 2023 items with spec range $\geq 15.6 \text{ lb/ft}^3$ (250kg/m³) are no longer eligible to be tested for UL 94 HBF but remain equivalent.

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

To order PORON materials, please contact our Sales Specialists at 860.928.3622 or via email at EMS_CT_cust_serv@rogerscorporation.com



The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of PORON Polyurethane Foam Materials for each application. The Rogers logo, PORON, and the PORON logo are trademarks of Rogers Corporation or one of its subsidiaries. © 2016, 2023 Rogers Corporation. All rights reserved. 0223-PDF • Publication #17-321 www.rogerscorp.com