

PORON® 4701-50 Firm (Unsupported)

Based on Global Test Methods

PROPERTY	TEST METHOD	TYPICAL VALUE		
PHYSICAL				
Density, kg/m ³ (lb./ft ³)	ASTM D3574-95, 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)
		12.7 (0.500)		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)		

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 ≥) Min. Thickness Passed, mm (in)	4.78 (0.188)	1.57 (0.062)	1.14 (0.045)
Fogging	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 nominal density $\geq 15.6\text{lb/ft}^3$ (250kg/m^3) 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