

# PORON® 4701-60 Very Firm



Preferred converter,  
fabricator, & distributor.

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PROPERTY	TEST METHOD	VALUE		
<b>PHYSICAL</b>				
Density, kg/m <sup>3</sup> (lb./ft <sup>3</sup> )	ASTM D3574-95, Test A	240 (15)	320 (20)	400 (25)
Tolerance		± 10		
Thickness, mm (inches)		3.18 - 6.35 (0.125 - 0.250)	0.79 - 4.78 (0.031 - 0.188)	0.79 - 2.36 (0.031 - 0.093)
Tolerance, %		± 10		
Standard Color (Code)		Black (04)		
Compression Force Deflection, kPa (psi)	0.51 cm/min (0.2"/min Strain Rate Force Measured @ 25% Deflection	124 - 345 (18 - 50)	241 - 586 (35 - 85)	345 - 896 (50 - 130)
Typical kPa (psi)		249 (36)	428 (62)	643 (93)
Hardness, Durometer Shore O	ASTM D2240-97	42	55	63
Shore A		30	42	53
Compression Set, % max	ASTM D3574-95 Test D @ 23°C (73°F)	5		
	ASTM D3574-95 Test D @ 70°C (158°F)	10		
	ASTM D3574-95 Test J/Test D Autoclaved 5 hrs @ 121°C (250°F)	10		
Dimensional Stability, % max change	22 hrs @ 80°C (176°F) in a Forced-Air Oven	± 5		
Tensile Strength, min. kpa (psi)	ASTM D3574-75 Test E	931 (135)	1382 (200)	1724 (250)
Tensile Elongation, % min.	ASTM D3574-75 Test E	50	45	50
Tear Strength, min. kN/m, (pli)	ASTM D264-91 Die C	2.1 (12)	3.0 (17)	3.3 (19)
Typical kNm, (pli)		3.3 (19)	4.4 (25)	5.3 (30)



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<b>ELECTRICAL &amp; THERMAL</b>		240 (15)	320 (20)	400 (25)
Dielectric Constant, K' ("DK")	ASTM D150 @ 22°C (72°F) Relative Humidity 50% for 24 hrs		1.60	
Dielectric Strength, volts/mil	ASTM D149-97a		50	
Dissipation Factor, tan D ("DF")	ASTM D150-98		0.05	
Volume Resistivity, ohm-cm	ASTM D257-99		7 x 10 <sup>12</sup>	
Surface Resistivity, ohm/sq.	ASTM D257-99		3 x 10 <sup>12</sup>	
Thermal Conductivity, W/m-C BTU-in./hr/ft <sup>2</sup> -F)	ASTM C518-98	-	0.088 (0.61)	-
Coefficient of Thermal Expansion		2.3 - 3.1 x 10 <sup>-4</sup> in/in/°C (1.3 - 1.7 x 10 <sup>-4</sup> in/in/°F)		
<b>TEMPERATURE RESISTANCE</b>				
Recommended Constant Use, max.	SAE J-2236		90°C (194°F)	
Recommended Intermittent Use, max.	UL JMST2 (UL50 and UL508)		121°C (250°F)	
Brittleness Temperature	ASTM D746-98		-16°C (3°F)	
Cold Flexibility	MIL-P-12420D 1991 @ -40°C (-40°F)		Pass	
<b>FLAMMABILITY &amp; OUTGASSING</b>				
Flammability, mm (inches)	UL 94HBF <sup>†</sup> (File E20305) (Pass ≥)	3.175 (0.125)	1.6 (0.062)	-
	FMVSS 302 (Pass ≥)	3.175 (0.125)	1.6 (0.062)	1.6 (0.062)
	CSA Comp HBF (File 188149) (Pass ≥)	3.175 (0.125)	1.6 (0.062)	-
Fogging	SAE J-1756 3 hrs @ 100°C (212°F)		Pass	
Outgassing, Total Mass Loss (TML) %	ASTM E595-93 24 hrs @ 125°C (257°F) @ <7 x 10 <sup>3</sup> kPa	0.6	0.7	0.7
Outgassing, Collected Volatile Condensable Materials (CVCM) %		0.05	0.02	0.03
Outgassing, Water Vapor Regain (WVR) %		0.5	0.5	0.6



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<b>ENVIRONMENTAL</b>		240 (15)	320 (20)	400 (25)
Gasketing and Sealing	UL JMST2 (Consisting of UL50 & UL508) CAN/CSA-C22.2 No. 94-M91		File MH15464 File 188149	
Moisture Absorption, High Humidity Exposure, % Weight Gain, Typical	AMS 3568-95		2	
Water Absorption, Immersion Testing, % Weight Gain, Typical	ASTM D570-95	19	20	6
UV Resistance	ASTM G53-96		Good	
Ozone Resistance	GM 4486P-95		Pass	
Corrosion Resistance	AMS 3568-91		Pass	
Mildew/Bacteria Resistance	ASTM G21		Good	
Staining	ASTM D925		No Stain	
Skin Contact Irritation	Primary Skin Irritation Test (FHSA)		Pass	

- Notes:
- ‡Designed to meet UL 94 HBF based upon 2022 test criteria. As of 2023 items with nominal density  $\geq 15.6\text{lb/ft}^3$  ( $250\text{kg/m}^3$ ) 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.

For more information and to request a sample, please contact our team of experts at [info@seconrubber.com](mailto:info@seconrubber.com)



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