

PORON® 92 Extra Soft – Slow Rebound- Data Sheet

PROPERTY	TEST METHOD	VALUE	
PHYSICAL			
Density, kg /m ³ (lb. / ft ³)	ASTM D 3574-95, Test A	192 (12)	240 (15)
Tolerance, %		± 10	
Thickness, mm (inches)		3.175 - 10.80 (0.125 - 0.425)	3.18 - 12.70 (0.125 - 0.500)
Tolerance, %		± 10	
Standard Color (Code)		Black (04)	
Compression Force Deflection, kPa (psi)	0.51 cm-mm (0.2" / min)Strain Rate Force Measured @ 25% Deflection	1.7 - 17 (0.25-2.5)	2 - 24 (0.3 - 3.5)
Hardness, Durometer, Shore "OO",	ASTM D 2240-97	< 3	< 5
Compression Set, % max.	ASTM D 1667-90 Test D @ 23°C (73°F) ASTM D 3574-95 Test D @ 70°C (158°F) ASTM D 3574-95 Test J/Test D autoclaved 5 hrs @ 121°C (250°F)	2 10 5	
Resilience by Vertical Rebound, %	ASTM D 2632-96	4	
Dimensional Stability, % max. change	22 hrs @ 80°C (176°F) in a forced-air oven	± 3	± 5
Tensile Strength, Min. kPa (psi)	ASTM D 3574-75 Test E	83 (12)	103 (15)
Tensile Elongation, % min.,	ASTM D 3574-75 Test E	150	120
Tear Strength, Min. kN/m (pli)	ASTM D 264-91 Die C	0.4 (2)	0.53 (3)
ELECTRICAL AND THERMAL			
Dielectric Constant, K' ("DK")	ASTM D 150 measurements at 22°C (72°F) relative humidity 50% for 24 hrs.	-	1.48
Dielectric Strength, volts/mil	ASTM D 149-97a	42	50
Dissipation Factor, tan D ("DF")	ASTM D 150-98	-	0.04
Volume Resistivity, ohm-cm	ASTM D 257-99	-	8 x 10 ¹¹
Surface Resistivity, ohm/sq.	ASTM D 257-99	-	10 x 10 ¹¹
Coefficient of Thermal Expansion		2.3 - 3.1 x 10 ⁻⁴ in./in./°C (1.3-1.7 x 10 ⁻⁴ in./in/°F)	

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PORON® 92 Extra Soft – Slow Rebound, Continued

PROPERTY	TEST METHOD	VALUE	
TEMPERATURE RESISTANCE			
Recommended Constant Use, max.	SAE J-2236	90°C (194°F)	
Recommended Intermittent Use, max.		121°C (250°F)	
Embrittlement	ASTM D 746-98	-20°C (-4°F)	
FLAMMABILITY AND OUTGASSING			
Flammability	UL 94HBF (File E20305) (Pass ≥) MVSS 302 (Pass ≥) CSA Comp HBF (File 188149) (Pass ≥)	3.94mm (.155") 3.94mm (.155") 3.94mm (.155")	3.0mm (.118") 3.0mm (.118") 3.0mm (.118")
Fogging	SAE J-1756 3 hrs @ 100°C (212°F)	Pass	
Outgassing, Total Mass Loss (TML) %	ASTM E 595-93 24 hrs @ 125°C (257°F) @ <7x10³ Pa	0.76	1.73
Outgassing, Collected Volatile Condensable Materials (CVCM) %		0.04	0.14
Outgassing, Water Vapor Regain (WVR) %		0.60	0.71
ENVIRONMENTAL			
Gasketing and Sealing	UL JMST2 (Consisting of UL50 and UL508) CAN/CSA – C22.2 No. 94-M91	-	File MH15464
Water Absorption, High Humidity Exposure, % weight gain, typical	AMS 3568-95	2	
Water Absorption, Immersion Testing, % weight gain, typical	ASTM D 570-95	38	34
Mildew/Bacteria Resistance	ASTM G 21	Good	
Staining	ASTM D 925	No Stain	

These materials are unsupported and should be processed with the knowledge that stretching of die cut parts can occur when material has not been relaxed.

Notes:

- – 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.

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