

Typical Product Properties

PORON® AquaPro™ Family: Formulation 37 – Data Sheet

PROPERTY	TEST METHOD	VALUE
<i>PHYSICAL</i>		
Density, kg/m ³ (lb. / ft ³) Tolerance, kg/m ³ (lb. / ft ³)	ASTM D 3574, Test A	224 (14) ± 32 (2)
Thickness, mm (in) Tolerance, %	ASTM D 3574, Test A	1.5 – 12.7 (0.059 – 0.500) ± 10
Compression Force Deflection, kPa (psi)	0.51 cm/min (0.2" /min) Strain Rate Force Measured @ 25% Deflection	24 – 59 (3.5 – 8.5)
Compression Set, % max. after 24 hour recovery	ASTM D 3574 Test D @ 70°C (158°F)	10
Tensile Strength, Min. kPa (psi)	ASTM D 3574 Test E	248 (36)
Tensile Elongation, % min.	ASTM D 3574 Test E	150
Tear Strength, Min. kN/m (pli)	ASTM D 264 Die C	0.96 (5.5)
Standard Color (Code)		Black (04)
<i>TEMPERATURE RESISTANCE</i>		
Recommended Constant Use, Max	SAE J-2236	90°C (194°F)
Recommended Intermittent Use, Max	UL 57	121°C (250°F)
Brittleness Temperature By Impact, °C (°F)	ASTM D 746	-42°C (-44°F)
Cold Flexibility	GMW3154 (Conical Mandrel Bend Test)	No Cracking
<i>FLAMMABILITY AND OUTGASSING</i>		
Flame Resistance Thickness, mm (in)	UL 94 HBF (Pass ≥) FMVSS 302 (Pass ≥) GMW3232 (Pass ≥)	3.0 (0.118) 3.0 (0.118) 3.0 (0.118)
Fogging	SAE J-1756 3 hrs @ 100°C (212°F)	No Fogging
Outgassing, Total Mass Loss (TML) % Collected Volatile Condensable Materials (CVCM) % Water Vapor Regain (WVR) %	ASTM E 595 24 hrs @ 125°C (257°F) @ <7x10 ³ Pa	0.81 0.02 0.49
<i>ENVIRONMENTAL</i>		
Gasketing & Sealing	UL JMST2 (Consisting of UL50 and UL508)	File MH15464
Moisture Absorption, High Humidity Exposure, % weight	AMS 3568	1.1
Water Absorption, Vacuum Exposure, % weight gain	ASTM D 1056	5
UV Resistance, (ΔE, % gloss change)	ASTM G 154/SAE J1545	2.8 – 63
Ozone Resistance	ISO 1431-1	No cracks or other indication of material breakdown
Corrosion Resistance	AMS 3568	6
Mildew Resistance	GMW3259	No visual evidence of growth. No odor.

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Values should not be used for specification limits.

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