

PORON® AquaPro® 4701-37-14059-04P

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
Density, kg/m ³ (lb./ft ³)	ASTM D 3574-95, Test A	224 (14)
Tolerance, kg/m ³ (lb./ft ³)		± 32 (2)
Thickness, mm (inches)	ASTM D 3574-95, Test A	1.5 (0.059)
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	24 - 59 (3.5 - 8.5)
Compression Set, % max After 24 Hour Recovery	ASTM D3574-95 Test D @ 70°C (158°F)	10
TEMPERATURE RESISTANCE		
Recommended Constant Use, max.	SAE J-2236	90°C (194°F)
Recommended Intermittent Use, max.	UL 157	121°C (250°F)
OUTGASSING		
Fogging	SAE J-1756 3 hrs @ 100°C (212°F)	No Fogging
Outgassing, Total Mass Loss (TML) %	ASTM E595 24 hrs @ 125°C (257°F) @ <7 x 10 ³ Pa	0.58
Outgassing, Collected Volatile Condensable Materials (CVCM) %		0.02
Outgassing, Water Vapor Regain (WVR) %		0.09

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ENVIRONMENTAL		
Gasketing and Sealing	UL JMST2 (Consisting of UL50 & UL508) CAN/CSA-C22.2 No. 94-M91	File MH15464
Moisture Absorption, High Humidity Exposure, % Weight Gain	AMS 3568	1.1
Water Absorption, Vacuum Exposure, % Weight Gain	ASTM D1056	5
UV Resistance, ΔE % Gloss Change	ASTM G154/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	GMW 3259	No visual evidence of growth. No odor.

The data mentioned above represents results of testing the PORON polyurethane foam only. PORON cellular polyurethane material is supported by being directly cast onto 0.05mm (2 mil) polyester film. By casting directly onto the film, a permanent bond is created. Please see physical property data for the film as represented by manufacturer below.

Supporting Material - Clear Polyester Film (PET)

PROPERTY	TEST METHOD	VALUE
Coefficient of Friction A/B, (Kinetic)	ASTM D1894	0.40
Density, kg/m ³ (lb/ft ³)	ASTM D1505	1395 (87.1)
Modulus, MD, kPa (psi)	ASTM D882	3.5 x 10 ⁶ (500,000)
Shrinkage, MD, % (TD)	39 min. @ 150°C (302°F)	1.2 (0.0)
Tensile Strength, MD, kPa (psi)	ASTM D882	2.1 x 10 ⁵ (30,000)
Ultimate Elongation, %	ASTM D882	150
Yield Strength (F5), kPa (psi)	ASTM D882	1.0 x 10 ⁵ (15,000)

Notes:

- 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 solutions@rogerscorp.com