

PORON® AquaPro™ Family Formulation 37

PRELIMINARY PRODUCT DATA SHEET – EFFECTIVE: JANUARY 2015

PROPERTY	TEST METHOD	TYPICAL VALUE
PHYSICAL PROPERTIES		
DENSITY, kg / m ³ (lb. / ft ³)	ASTM D 3574, Test A	224 (14)
Tolerance, kg /m3 (lb. / ft ³)		± 32 (2)
THICKNESS, mm (in)	ASTM D 3574, Test A	1.5 – 9.5 (0.059 – 0.374)
Tolerance, %		± 10
COMPRESSION FORCE DEFLECTION, kPa		24 – 59
(psi)	Modified ASTM D 3574: PTP-0033 at 25% deflection	(3.5 – 8.5)
Typical kPa (psi)		41 (6)
COMPRESSION SET, Typical % 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, Typical % min.	ASTM D 3574 Test E	195
TEAR STRENGTH, Min. kN/m (pli)	ASTM D 264 Die C	0.96 (5.5)
STANDARD COLOR (CODE)		Black (04)
TEMPERATURE RESISTANCE		
RECOMMENDED CONSTANT USE, Max	SAE J-2236	90°C (194°F)
RECOMMENDED INTERMITTENT USE, Max	UL 157	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
FLAMMABILITY / OUTGASSING		
FLAME RESISTANCE THICKNESS, mm (in)	UL 94 HBF (Pass ≥)	6.35 (0.250)
	FMVSS 302 (Pass ≥)	6.35 (0.250)
	GMW3232 (Pass ≥)	6.35 (0.250)
FOGGING	SAE J-1756 3 hrs @ 100°C (212°F)	No Fogging
OUTGASSING, Total Mass Loss (TML) %		0.81
Collected Volatile Condensable Materials (CVCM) %	ASTM E 595 24 hrs @ 125°C (257°F) @ <7x10 ³ Pa	In Progress
Water Vapor Regain (WVR) %		0.49
ENVIRONMENTAL		
GASKETING AND SEALING	UL JMST2 (Consisting of UL50 and UL508)	File MH15464
MOISTURE ABSORPTION, High Humidity Exposure, % weight gain	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.

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

