

Typical Product Properties

PORON® AquaPro® Family: Formulation 37 – Data Sheet

PROPERTY	TEST METHOD	VALUE
PHYSICAL		
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)
TEMPERATURE RESISTANCE		
Recommended Constant Use, Max °C (°F)	SAE J-2236	90 (194)
Recommended Intermittent Use, Max °C (°F)	UL 157	121 (250)
Brittleness Temperature By Impact, °C (°F)	ASTM D 746	-42 (-44)
Cold Flexibility	GMW3154 (Conical Mandrel Bend Test)	No Cracking
FLAMMABILITY AND OUTGASSING		
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
ENVIRONMENTAL		
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.

The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on the data sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' PORON Polyurethane Foams for each application. The Rogers logo, Helping power, protect, connect our world, AquaPro and PORON are trademarks of Rogers Corporation or one of its subsidiaries. © 2015-2017, 2020 Rogers Corporation, All rights reserved. Printed in U.S.A. 0220-PDF. Publication #17-295