

## PORON® AquaPro® Family Formulation 37

PRELIMINARY PRODUCT DATA SHEET — EFFECTIVE: JANUARY 2015

PROPERTY	TEST METHOD	TYPICAL VALUE
PHYSICAL PROPERTIES		
DENSITY, kg / m³ (lb. / ft³)	ASTM D 3574, Test A	224 (14)
Tolerance, kg /m3 (lb. / ft³)		± 32 (2)
THICKNESS, mm (in)	ASTM D 3574, Test A	1.5 - 9.5 (0.059 - 0.374)
Tolerance, %		± 10
COMPRESSION FORCE DEFLECTION, kPa	Modified ASTM D 3574: PTP-0033 at 25% deflection	24 – 59
(psi)		(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) %	ASTM E 595 24 hrs @ 125°C (257°F) @ <7x103 Pa	0.81
Collected Volatile Condensable Materials (CVCM) %		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, (ΔΕ, % 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.

WWW.ROGERSCORP.COM

ROGERS CORPORATION-HIGH PERFORMANCE FOAMS DIVISION US 800.935.2940 | Europe +32.9.235.36.11 | Asia +86.512.6258.2700

The information contained in this Data Sheet is intended to assist you in designing with Rogers' High Performance Foam Materials. 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 in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers PORON Urethane Foams for each application. The Rogers logo, The world runs better with Rogers, AquaPro and PORON are licensed trademarks of Rogers Corporation. © 2015 Rogers Corporation, All rights reserved. Printed in U.S.A. 0115-PDF. Publication #17-295