

Precision components made of flexible and rigid materials



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ABOUT OUR COMPANY

Dr. Dietrich Müller GmbH is a global solution provider for electrical insulation materials, thermally conductive products, seals and technical films.

We advise on the selection of the right material and manufacture precision parts from flexible and rigid materials. We operate 6 sites and provide services to companies around the world.

We are ISO 9001 and ISO 14001 certified and UL listed as a repackager (E341377).

Zeppelinring 18 | D-26197 Ahlhorn | Tel.: +49 (0) 4435 97 10 10 | Fax: +49 (0) 4435 97 10 11 info@mueller-ahlhorn.com | www.mueller-ahlhorn.com | Seat of the company: Ahlhorn Managing Director: Dr. Michael Müller | AG Oldenburg: HRB 209026 | Ust. ID-Nr.: DE 295969093 St.-Nr.: 68/207/07677 | Certified according to ISO 9001:2015 and ISO 14001:2015 UL recognised repacker E341377

 Production and distribution of electrical insulation materials, thermally conductive products, seals and technical films

Production of stamped parts, blanks and moulded parts

Cutting/assembly of films and adhesive tapes

CNC machining, laser cutting and water jet cutting



PORON[®] AquaPro[®] Family Formulation 37

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 - 12.7 (0.059 - 0.500)
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
Tensile Strength, min. kPa (psi)	ASTM D3574 Test E	248 (36)
Tensile Elongation, % min.	ASTM D3574 Test E	150
Tear Strength , min. kN/m, (pli)	ASTM D264 Die C	0.96 (5.5)
TEMPERATURE RESISTANCE		
Recommended Constant Use, max.	SAE J-2236	90°C (194°F)
Recommended Intermittent Use, max.	UL 157	121°C (250°F)
Embrittlement	ASTM D746	-42°C (-44°F)
Cold Flexibility	GMW3154 (Conical Mandrel Bend Test)	No Cracking



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PROPERTY	TEST METHOD	VALUE
FLAMMABILITY & OUTGASSING		
Flammability, mm (inches)	UL 94HBF ⁺ (Pass \geq)	3.0 (0.118)
	FMVSS 302 (Pass ≥)	3.0 (0.118)
	GMW3232 (Pass≥)	3.0 (0.118)
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 10³ Pa	0.81
Outgassing, Collected Volatile		0.02
Condensable Materials (CVCM) %		0.02
Outgassing, Water Vapor Regain (WVR) %		0.49
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.

Notes:

[‡]Designed to meet UL 94 HBF based upon 2022 test criteria. As of 2023 items with nominal density \geq 15.6lb/ft³ (250kg/m³) are no longer eligible to be tested for UL 94 HBF but remain equivalent.

• 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



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