



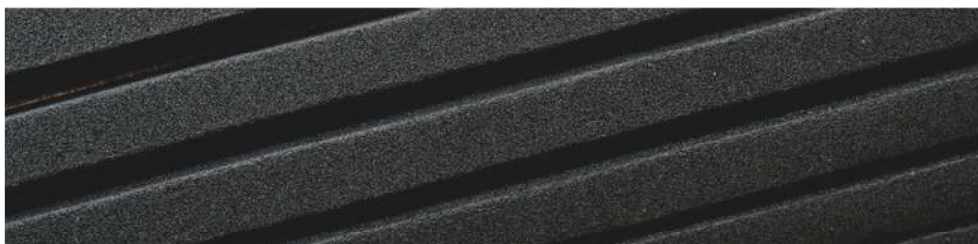
DRIVEN BY PERFORMANCE

Monarch 8002

Engineered gasket solution to provide protection from dust, debris, moisture, and weathering.

- // Medium density
- // Soft to medium firmness
- // Excellent ozone resistance
- // Broad service temperature range
- // Meets OEM specifications

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TECHNICAL DATA - MONARCH 8002

Brief description	8002 is a 100% EPDM, closed cell foam product produced in bun form. It is a soft/medium firmness, medium density, foam that meets ASTM D 1056 2A2 requirements. It is an excellent solution for outdoor applications where ozone resistance is needed or for low temperature applications. It is a good solution for high heat applications. This product is UL listed for gasket and seals and meets various automotive specifications.
Product color range	Black
ASTM D 1056 Designation	2A2
Cell structure	Closed
Form	Bun
Polymer	100% EPDM
Markets	Automotive, Electrical
Applications	Gaskets and seals

Source	Specification	Comments
Approvals and specifications		
MAHLE	GN AR 06220 Par 6.7 [MAHLE GN AR 06346]	Previously Delphi SD2 207 Par 6.7
Stellantis (FCA / Chrysler)	MSAY 430 MS.90145 Type 4	

Property	Value / Assessment	Standard / Test method
Operating temperature		
Operating temperature	Min: -75°C (-103°F) Max (intermittent): 121°C (250°F) Max: 104°C (220°F)	
Flammability		
Flame FMVSS 302 (burn rate)	3.94 in/minute (100 mm/minute) max Passes at 0.125 in (3.18 mm) and higher	FMVSS 302
Resistance to water		
Water absorption by vacuum	5% max	ASTM D1056
Physical attributes		
Density	7 - 11 lb/ft ³ 112 - 176 kg/m ³	ASTM D1056
Mechanical properties		
Compression set	25% max	ASTM D1056
Tensile strength	40 psi min 276 kPa min	ASTM D412 (Die A)
Elongation	150% min	ASTM D412 (Die A)
Tear strength	7.5 lb/in min 1.3 kN/m min	ASTM D624 (Die C)
Hardness durometer shore 00	45 - 65	ASTM D2240
Resilience	45 - 55%	ASTM D2632
Compression deflection		
Compression deflection 25%	5 - 9 psi 34.5 - 62.1 kPa	ASTM D1056

Property	Value / Assessment	Standard / Test method
Change in compression deflection	±30 %	ASTM D1056
UL Listed		
UL gaskets and seals	UL File # JMLU2.MH25062 Suitable for UL50E continuous & periodic compression applications for enclosure types: 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion. Suitable as gasket material for use in UL 48 - Electric Signs. Suitable as gasket material for use in UL 508 - Industrial Control Equipment UL gaskets & seals max service temperature: 60°C (140°F)	UL 48, UL 508, UL 50E

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,100 employees and 26 production plants in 20 countries, Armacell operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

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