



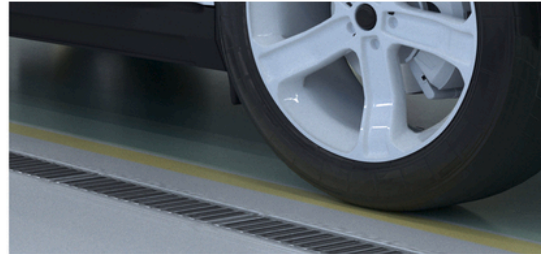
DRIVEN BY PERFORMANCE

Monarch 8001

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

- // Medium density
- // Soft firmness
- // Excellent ozone resistance
- // Broad service temperature range
- // Meets OEM specification

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TECHNICAL DATA - MONARCH 8001

Brief description	8001 is a 100% EPDM, closed cell, soft, medium density, foam product that meets ASTM D 1056 2A1 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 black in color and is also available in gray (8901).
Product color range	Black
ASTM D 1056 Designation	2A1
Cell structure	Closed
Form	Bun
Polymer	100% EPDM
Markets	Automotive
Applications	Gaskets and seals

Source	Specification	Comments
Approvals and specifications		
General Motors	GMW 17408 Class I Type IV	Interior & Exterior applications

Property	Value / Assessment						Standard / Test method
Temperature range							
Service temperature	Min. °C	Min. °F	Max. °C (intermittent)	Max. °F (intermittent)	Max. °C	Max. °F	ASTM D1056
	-75	-103	121	250	104	220	
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	40 - 60						ASTM D2240
Resilience	50 - 60%						ASTM D2632
Compression deflection							
Compression deflection 25%	2 - 5 psi 13.8 - 34.5 kPa						ASTM D1056

Property	Value / Assessment	Standard / Test method
Compression deflection 50% - 60 sec hold	6.96 - 14.07 psi 48.01 - 97 kPa	ISO 3386-1
Change in compression deflection	±30 %	ASTM D1056

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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company 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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