



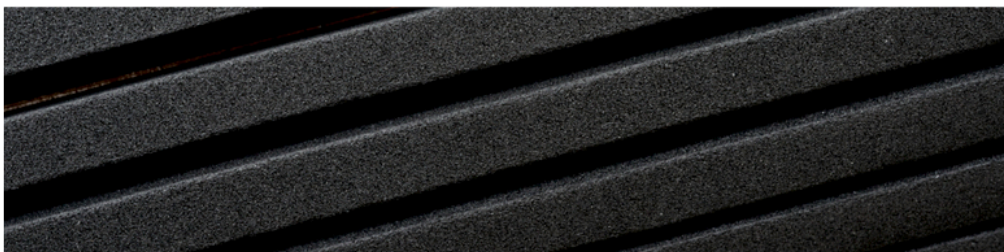
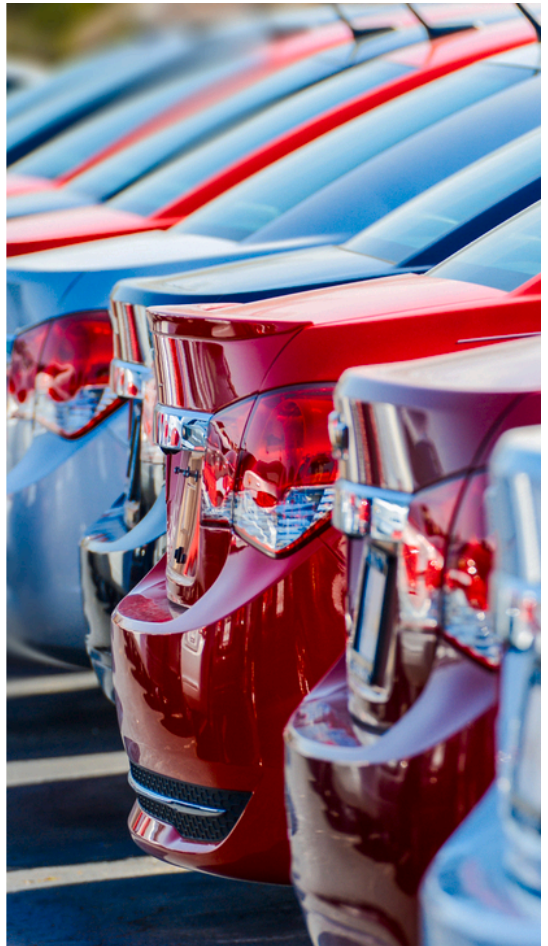
DRIVEN BY PERFORMANCE

Monarch 2001

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

- // Medium density
- // Soft firmness
- // Good oil and fuel resistance
- // Meets OEM specifications

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TECHNICAL DATA - MONARCH 2001

Brief description	2001 is a neoprene based, closed cell foam product produced in bun form. It is a soft, medium density, foam that meets ASTM D 1056 2C1 requirements. This product has good oil/fuel resistance and is UL listed for gasket and seals. 2001 meets various automotive specifications.
Product color range	Black
ASTM D 1056 Designation	2A1/2C1
Cell structure	Closed
Form	Bun
Polymer	Neoprene Based
Markets	Aerospace, 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
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
	-40	-40	93.3	200	65.6	150	
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	30% max						ASTM D1056
Tensile strength	60 psi min 414 kPa min						ASTM D412 (Die A)
Elongation	100% min						ASTM D412 (Die A)
Tear strength	12 lb/in min 2.1 kN/m min						ASTM D624 (Die C)
Hardness durometer shore 00	45 - 65						ASTM D2240
Resilience	10 - 20%						ASTM D2632
Fluid immersion	250% max						ASTM D1056
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
UL Listed		
UL gaskets and seals	<p data-bbox="367 357 1312 499"> 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) </p> <p data-bbox="367 508 1312 585"> UL File # JMST2.MH10189 UL50 and UL50E continuous and periodic recompression applications for enclosure types: 2, 3, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P </p>	UL 48, UL 508, UL 50E, UL 50

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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 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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