



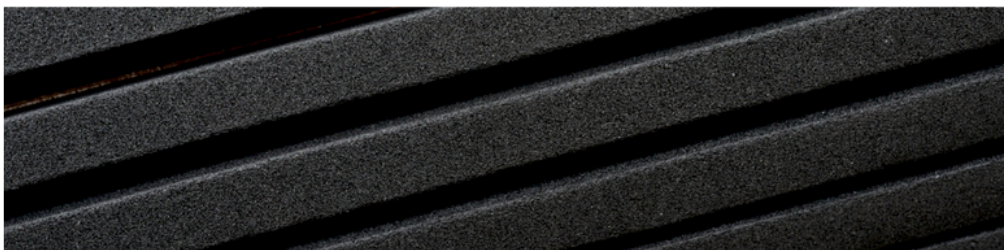
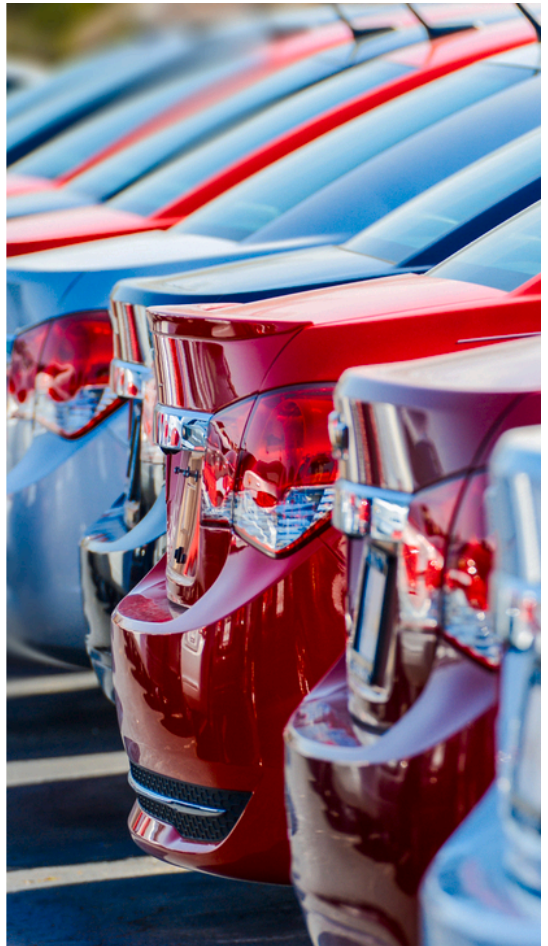
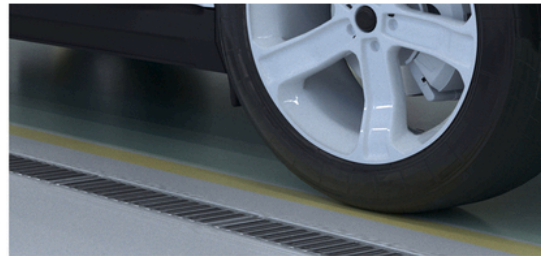
DRIVEN BY PERFORMANCE

Monarch 5021

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

- // Low density
- // Soft firmness
- // Meets OEM specifications

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TECHNICAL DATA - MONARCH 5021

Brief description	5021 is an EPDM blended, soft, low density, closed cell foam product made in bun form that meets ASTM D 1056 2A1 requirements. This product meets various automotive specifications.
Product color range	Black
ASTM D 1056 Designation	2A1
Cell structure	Closed
Form	Bun
Polymer	EPDM/CR/SBR
Markets	Automotive
Applications	Gaskets and seals

Source	Specification	Comments
Approvals and specifications		
MAHLE	GN AR 06220 Par 6.1 [MAHLE GN AR 06346]	Previously Delphi SD2 207 Par 6.1
General Motors	GMW 17408 Class IIIA-E Type IV	Interior & Exterior Applications Exception to compression set @ 70°C (158°F)

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
	-55	-67	121	250	93.3	200	
Flammability							
Flame FMVSS 302 (burn rate)	3.94 in/minute (100 mm/minute) max Passes at 0.188 in (4.76 mm) and higher						FMVSS 302
Resistance to water							
Water absorption by vacuum	5% max						ASTM D1056
Physical attributes							
Density	4 - 8 lb/ft ³ 64 - 128 kg/m ³						ASTM D1056
Mechanical properties							
Compression set	45% max						ASTM D1056
Tensile strength	45 psi min 310 kPa min						ASTM D412 (Die A)
Elongation	100% min						ASTM D412 (Die A)
Tear strength	7.1 lb/in min 1.24 kN/m min						ASTM D624 (Die C)
Hardness durometer shore 00	40 - 60						ASTM D2240
Resilience	28 - 38%						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

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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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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