



DRIVEN BY PERFORMANCE

# Monarch 5022

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

- // Low density
- // Soft to medium firmness
- // Good weathering resistance
- // Meets OEM specifications

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 **armacell**<sup>®</sup>  
ArmaComp<sup>™</sup>

## TECHNICAL DATA - MONARCH 5022

Brief description	Product available in white (5522)
Product color range	Black
ASTM D 1056 Designation	2A2
Cell structure	Closed
Form	Bun
Polymer	EPDM/CR/SBR
Markets	Industrial, Automotive
Applications	Gaskets and seals

Property	Value / Assessment	Comments
<b>Approvals and specifications</b>		
General Motors	GMW 17408 Class I Type IV	Interior & Exterior Applications Exception to compression set @ 70°C (158°F) & fogging
MAHLE	GN AR 06220 Par 6.2 [MAHLE GN AR 06346	Previously Delphi SD2 207 Par 6.2

Property	Value / Assessment						Standard / Test method
<b>Temperature range</b>							
Service temperature	Min. °C	Min. °F	Max. °C (intermittent)	Max. °F (intermittent)	Max. °C	Max. °F	ASTM D1056
	-40	-40	121	250	93.3	200	
<b>Flammability</b>							
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
<b>Resistance to water</b>							
Water absorption by vacuum	5% max						ASTM D1056
<b>Physical attributes</b>							
Density	4 - 8 lb/ft <sup>3</sup> 64 - 128 kg/m <sup>3</sup>						ASTM D1056
<b>Mechanical properties</b>							
Compression set	50% max						ASTM D1056
Tensile strength	45 psi 310 kPa						ASTM D412 (Die A)
Elongation	125%						ASTM D412 (Die A)
Tear strength	7.1 lb/in 1.23 kN/m						ASTM D624 (Die C)
Hardness durometer shore 00	40 - 60						ASTM D2240
Resilience	30 - 40%						ASTM D2632
<b>Compression deflection</b>							
Compression deflection 25%	5 - 9 psi 34.5 - 62.1 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

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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 27 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.

For more information, please visit:  
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