



DRIVEN BY PERFORMANCE

Monarch 5091

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

- // Low density
- // Soft firmness
- // Good flame performance
- // Suitable for outdoor applications
- // Meets OEM specification

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 **armacell**[®]
ArmaComp[™]

TECHNICAL DATA - MONARCH 5091

Product color range	Black
ASTM D 1056 Designation	2A1
Cell structure	Closed
Form	Bun
Polymer	EPDM/CR/SBR
Markets	Automotive, Military, Industrial
Applications	Gaskets and seals, Body padding

Property	Value / Assessment	Comments
Approvals and specifications		
General Motors	GMW 17408 Class I Type IV	Interior & Exterior Applications Exception to compression set @ 70°C (158°F) & fogging

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 - 6 lb/ft ³ 64 - 96 kg/m ³						ASTM D1056
Mechanical properties							
Compression set	40% max						ASTM D1056
Tensile strength	40 psi 276 kPa						ASTM D412 (Die A)
Elongation	100%						ASTM D412 (Die A)
Tear strength	5.0 lb/in 0.87 kN/m						ASTM D624 (Die C)
Hardness durometer shore 00	40 - 60						ASTM D2240
Resilience	32 - 42%						ASTM D2632
Compression deflection							
Compression deflection 25%	2 - 5 psi 13.8 - 34.5 kPa						ASTM D1056
Compression deflection 50% - 60 sec hold	6.96 - 14.07 psi 48.01 - 97 kPa						ISO 3386-1

Property	Value / Assessment	Standard / Test method
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 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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