



DRIVEN BY PERFORMANCE

Monarch 5052

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

- // Low density
- // Soft to medium firmness
- // Good flame performance
- // Suitable for outdoor applications

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ArmaComp[™]

TECHNICAL DATA - MONARCH 5052

Brief description	Product available in black (5032), gray (5932), and red (5832)
Product color range	Dark black
Additives	Flame retardant
ASTM D 1056 Designation	2A2
Cell structure	Closed
Form	Bun
Polymer	EPDM/CR/SBR
Markets	Automotive
Applications	General purpose, Gaskets and seals

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	121	250	93.3	200	
Flammability							
Flame FMVSS 302 (burn rate)	3.94 in/minute (100 mm/minute) max Passes at 0.098 in (2.5 mm) and higher						FMVSS 302
UL standards							
UL94 HF-1	Passes at 1.5 mm (0.059 in) minimum thickness UL File # QMFZ2.E55798 & # QMFZ8.E55798						UL 94
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 1.23 kN/m min						ASTM D624 (Die C)
Hardness durometer shore 00	45 - 65						ASTM D2240
Resilience	30 - 40%						ASTM D2632
Compression deflection							
Compression deflection 25%	5 - 9 psi 34.5 - 62.1 kPa						ASTM D1056
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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