



INDUSTRIAL STRENGTH

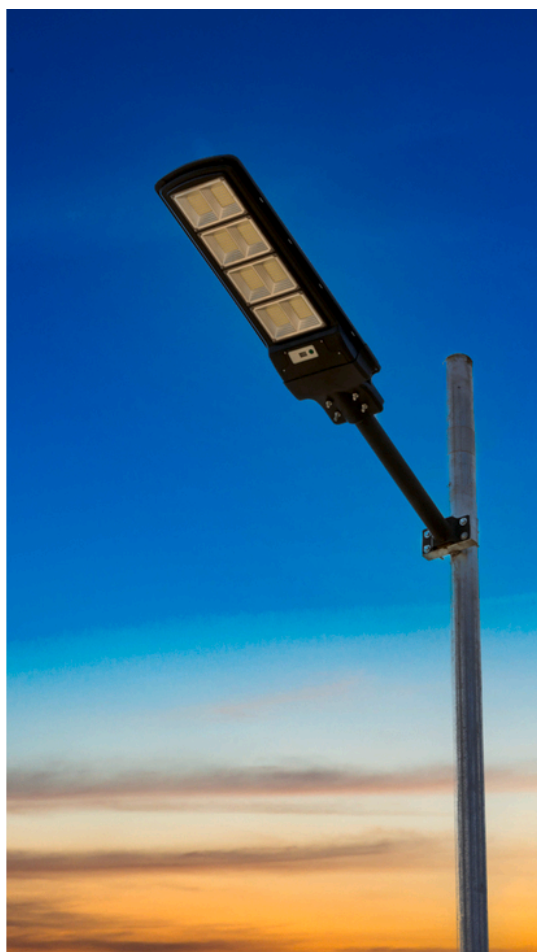
Monarch 9021

Engineered solution for LED lighting and electronic applications where sulfur-free foams are needed.

- // Low to medium density
- // Soft to medium firmness
- // No sulfur added
- // Broad service temperature range
- // Excellent ozone resistance



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ArmaComp[™]

TECHNICAL DATA - MONARCH 9021

Brief description	Ideal for use in environments around LED mechanisms, electronic cabinets, circuit boards, electrical enclosures, speaker housings, or where metal components are exposed and there is a risk of sulfur corrosion.
Product colour range	Black
ASTM D1056 Designation	2A1/2A2
Cell structure	Closed
Polymer	100% EPDM

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
	-75	-103	121	250	104	220	
Flammability							
Flammability test (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	5.6 - 8.7 lb/ft ³ 90 - 140 kg/m ³						ASTM D1056
Mechanical properties							
Compression set (Room temperature)	40% max						ASTM D1056
Tensile strength	45 psi min 310 kPa min						ASTM D412 (Die A)
Elongation	200% min						ASTM D412 (Die A)
Tear strength	9 lb/in min 1.6 kN/m min						ASTM D624 (Die C)
Hardness, Durometer Shore 00	35 - 55						ASTM D2240
Resilience	48 - 58%						ASTM D2632
Compression deflection							
Compression deflection 25%	3.5 - 7.5 psi 24.1 - 51.7 kPa						ASTM D1056
Compression deflection 50% - 60 sec hold	6.96 - 14.07 psi 48.01 - 97.0 kPa						ISO 3386-1
Change in 25% compression deflection after heat aging	±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.

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