



DESIGNED FOR DURABILITY

Monarch 3942

Engineered to be a versatile solution in die cutting processes to promote consistent ejection force.

- // Medium density
- // Soft to medium firmness
- // High resiliency performance
- // Broad service temperature range

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MAKING A DIFFERENCE AROUND THE WORLD

TECHNICAL DATA - MONARCH 3942

Product color range	Gray
ASTM D 1056 Designation	2A2
Cell structure	Closed
Form	Bun
Polymer	100% EPDM
Markets	Industrial
Applications	Die ejection

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							
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	10 - 14 lb/ft ³ 160 - 224 kg/m ³						ASTM D1056
Mechanical properties							
Compression set	25% max						ASTM D1056
Tensile strength	60 psi min 414 kPa min						ASTM D412 (Die A)
Elongation	125% min						ASTM D412 (Die A)
Tear strength	10 lb/in min 1.8 kN/m min						ASTM D624 (Die C)
Hardness durometer shore 00	50 - 70						ASTM D2240
Resilience	48 - 58%						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 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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