



FIRST CLASS INNOVATION

Monarch 6931

Engineered to meet stringent aerospace requirements for passenger comfort.

- // Low to medium density
- // Soft to medium firmness
- // Excellent shock absorption
- // Excellent flame performance
- // Meets OEM Specification



 **armacell**[®]
ArmaComp[™]

TECHNICAL DATA - MONARCH 6931

Brief description	Product is available in natural (6231).
Product color range	Gray
ASTM D 1056 Designation	2A1/2A2 / 2C1/2C2 / 2B1/2B2
Cell structure	Closed
Form	Bun
Polymer	NBR/PVC

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	93.3	200	71.1	160	
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
Vertical flammability test for aircraft interior plastics (12 seconds)	Passes at 0.250 in (6.35 mm) and higher						FAR 25.853
Resistance to water							
Water absorption by vacuum	5% max						ASTM D1056
Physical attributes							
Density	5 - 9 lb/ft ³ 80 - 144 kg/m ³						ASTM D1056
Mechanical properties							
Compression set	25% max						ASTM D1056
Tensile strength	80 psi min 552 kPa min						ASTM D412 (Die A)
Elongation	100% min						ASTM D412 (Die A)
Tear strength	16 lb/in min 2.8 kN/m min						ASTM D624 (Die C)
Hardness durometer shore 00	55 - 75						ASTM D2240
Resilience	5 - 15%						ASTM D2632
Fluid immersion	100% max						ASTM D1056
Compression deflection							
Compression deflection 25%	4 - 8 psi 27.6 - 55.2 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.

For more information, please visit:
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