



DRIVEN BY PERFORMANCE

EnsoLite IV1

Engineered for a wide array of sealing and gasket applications where flame requirements are important.

- // Soft firmness
- // Good oil and fuel resistance
- // Superior flame performance
- // Meets OEM specifications

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TECHNICAL DATA - ENSOLITE IV1

Product color range	Black
ASTM D 1056 Designation	2A1/2C1
Cell structure	Closed
Form	Roll
Polymer	NBR/PVC/CR
Skin	S2S (Skin 2 sides)
Markets	Automotive, Industrial, Aerospace
Applications	Gaskets and seals, UL50 E Electrical enclosures

Property	Value / Assessment	Comments
Approvals and specifications		
Stellantis (FCA / Chrysler)	MSAY 516 MS.90145 Type 1	

Property	Value / Assessment				Standard / Test method
Temperature range					
Service temperature	Min. °C	Min. °F	Max. °C (intermittent)	Max. °F (intermittent)	ASTM D1056
	-40	-40	93.3	200	
Flammability					
Flame FMVSS 302 (burn rate)	3.94 in/minute (100 mm/minute) max Passes at 0.125 in (3.18 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
UL standards					
UL94 HF-1	Passes at 1.3 mm (0.051 in) minimum thickness UL File # QMFZ2.E55798 & # QMFZ8.E55798				UL 94
UL94 V-0	Passes at 11.7 mm (0.460 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	3 - 5 lb/ft ³ 48.1 - 80.1 kg/m ³				ASTM D1056
Mechanical properties					
Compression set	40% max				ASTM D1056
Tensile strength	50 psi min 345 kPa min				ASTM D412 (Die A)
Elongation	100% min				ASTM D412 (Die A)
Tear strength	9 lb/in min 1.58 kN/m min				ASTM D624 (Die C)

Property	Value / Assessment	Standard / Test method
Hardness durometer shore 00	30 - 50	ASTM D2240
Resilience	20 - 40%	ASTM D2632
Fluid immersion	250% max	ASTM D1056
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
Change in compression deflection	±30 %	ASTM D1056
UL Listed		
UL gaskets and seals	UL File # JMST2.MH10189 UL50 and UL50E continuous and periodic recompression applications for enclosure types: 2, 3, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 UL gaskets & seals max service temperature: 60°C (140°F)	UL 50E, UL 50

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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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