



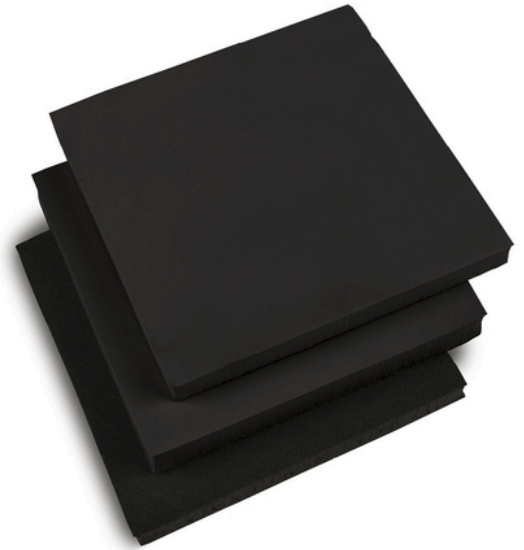
DRIVEN BY PERFORMANCE

EnsoLite IV2

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

- // Soft to medium firmness
- // Excellent oil and fuel resistance
- // Superior flame performance
- // Meets OEM specifications

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TECHNICAL DATA - ENSOLITE IV2

Brief description	IV2 is a NBR/PVC/CR closed cell foam product produced in continous rolls. This product is a soft/medium firmness, low/medium density foam that meets ASTM D 1056 2B2 requirements. This product has excellent flame performance for automotive and aerospace applications, is UL listed to UL94 flammability, and meets FAA FAR 12 second vertical burn requirements. This product is also UL listed for UL gasket & seals. This product has excellent oil/fuel resistance and meets various automotive specifications.
Product color range	Black
ASTM D 1056 Designation	2A2/2C2/2B2
Cell structure	Closed
Form	Roll
Polymer	NBR/PVC/CR
Skin	S2S (Skin 2 sides)
Markets	Aerospace, Automotive, Electrical
Applications	Gaskets and seals

Source	Specification	Comments
Approvals and specifications		
Stellantis (FCA / Chrysler)	MSAY 516 MS.90145 Type 2	
General Motors	GMW 17408 Class I Type IV	Interior & Exterior Applications

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
UL standards					
UL94 HF-1	Passes at 1.1 mm (0.043 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094				UL 94
UL94 V-0	Passes at 11.7 mm (0.460 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094				UL 94
Resistance to water					
Water absorption by vacuum	5% max				ASTM D1056
Physical attributes					
Density	5.5 - 7.5 lb/ft ³ 88.1 - 120 kg/m ³				ASTM D1056
Mechanical properties					
Compression set	35% max				ASTM D1056
Tensile strength	75 psi min 517 kPa min				ASTM D412 (Die A)
Elongation	100% min				ASTM D412 (Die A)
Tear strength	12 lb/in min 2.1 kN/m min				ASTM D624 (Die C)

Property	Value / Assessment	Standard / Test method
Hardness durometer shore 00	45 - 65	ASTM D2240
Fluid immersion	100% max	ASTM D1056
Compression deflection		
Compression deflection 25%	5 - 9 psi 34.5 - 62.1 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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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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