



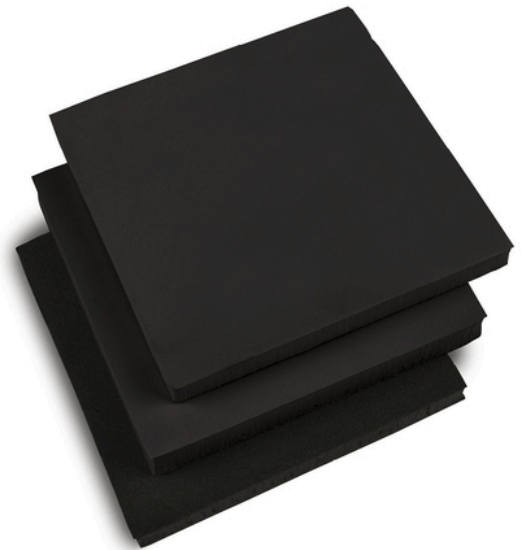
DRIVEN BY PERFORMANCE

EnsoLite IV3

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

- // Medium firmness
- // Excellent oil and fuel resistance
- // Superior flame performance
- // Meets OEM specifications

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TECHNICAL DATA - ENSOLITE IV3

Brief description	IV3 is a NBR/PVC/CR closed cell foam product produced in continuous rolls. This product is a medium firmness, medium density foam that meets ASTM D 1056 2B3 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. Additionally, this product has excellent oil/fuel resistance and meets various transportation specifications.
Product color range	Black
ASTM D 1056 Designation	2A3/2C3/2B3
Cell structure	Closed
Form	Roll
Polymer	NBR/PVC/CR
Skin	S2S (Skin 2 sides)
Markets	Aerospace, Automotive, Industrial
Applications	Gaskets and seals

Source	Specification	Comments
Approvals and specifications		
Stellantis (FCA / Chrysler)	MSAY 516 MS.90145 Type 3	
General Motors	GMW 17408 Class I Type V	Interior & Exterior Applications Exception to compression set @ 70°C (158°F) & fogging
Gulfstream	GAP 105K	
Penn DOT	Bulletin 15 Section 1085.2 (m)1	Type 2, Class C, Grade 3

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 0.098 in (2.5 mm) and higher				FMVSS 302
Vertical flammability test for aircraft interior plastics (12 seconds)	Passes at 0.125 in (3.18 mm) and higher				FAR 25.853
UL standards					
UL94 5VA	Passes at 6.2 mm (0.244 in) minimum thickness (without skin) Passes at 11.6 mm (0.457 in) minimum thickness (skin 1 side) UL File # QORU2.E535094 & # QORU8.E535094				UL 94
UL94 5VB	Passes at 6.12 mm (0.241 in) minimum thickness (skin 1 side) UL File # QORU2.E535094 & # QORU8.E535094				UL 94
UL94 HBF	Passes at 7.1 mm (0.279 in) minimum thickness (skin 1 side) UL File # QORU2.E535094 & # QORU8.E535094				UL 94
UL94 HF-1	Passes at 1.3 mm (0.051 in) minimum thickness (without skin) Passes at 1.5 mm (0.059 in) - 7.0 mm (0.275 in) thickness only (skin 1 side) UL File # QORU2.E535094 & # QORU8.E535094				UL 94
UL94 V-0	Passes at 6.2 mm (0.244 in) minimum thickness (without skin) Passes at 6.12 mm (0.241 in) minimum thickness (skin 1 side) UL File # QORU2.E535094 & # QORU8.E535094				UL 94

Property	Value / Assessment	Standard / Test method
Resistance to water		
Water absorption by vacuum	5% max	ASTM D1056
Physical attributes		
Density	7 - 9.5 lb/ft ³ 112 - 152 kg/m ³	ASTM D1056
Mechanical properties		
Compression set	35% max	ASTM D1056
Tensile strength	100 psi min 689 kPa min	ASTM D412 (Die A)
Elongation	100% min	ASTM D412 (Die A)
Tear strength	20 lb/in min 3.5 kN/m min	ASTM D624 (Die C)
Hardness durometer shore 00	60 - 80	ASTM D2240
Resilience	10 - 30%	ASTM D2632
Fluid immersion	100% max	ASTM D1056
Compression deflection		
Compression deflection 25%	9 - 13 psi 62.1 - 89.6 kPa	ASTM D1056
Compression deflection 50% - 60 sec hold	14.07 - 24.95 psi 97.01 - 172 kPa	ISO 3386-1
Change in compression deflection	±30 %	ASTM D1056

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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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