



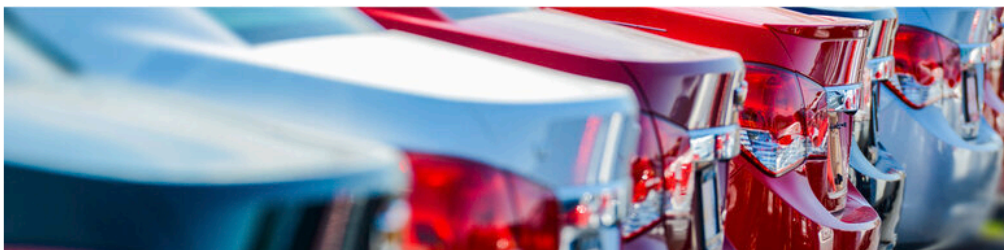
DRIVEN BY PERFORMANCE

EnsoLite IG1

Engineered gasket solution to provide protection from dust, debris, and moisture.

- // Soft firmness
- // Superior oil and fuel resistance
- // Superior flame performance
- // Compatible with pressure sensitive adhesives

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TECHNICAL DATA - ENSOLITE IG1

Brief description	IG1 is a NBR/PVC/CR closed cell foam product produced in continuous rolls. This product is a soft, low density foam that meets ASTM D 1056 2B1 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 good recovery after compression and excellent oil/fuel resistance.
Product color range	Black
ASTM D 1056 Designation	2A1/2C1/2B1
Cell structure	Closed
Form	Roll
Polymer	NBR/PVC/CR
Markets	Automotive, Equipment
Applications	Gaskets and seals

Property	Value / Assessment	Standard / Test method
Operating temperature		
Operating temperature	Min: -40°C (-40°F) Max (intermittent): 93.3°C (200°F)	ASTM D1056
Flammability		
Flame FMVSS 302 (burn rate)	3.94 in/minute (100 mm/minute) max Passes at 0.094 in (2.39 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 UL File # QORU2.E535094 & # QORU8.E535094	UL 94
UL94 HF-1	Passes at 1.5 mm (0.059 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094	UL 94
UL94 V-0	Passes at 6.2 mm (0.244 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	4 - 6 lb/ft ³ 64.1 - 96.1 kg/m ³	ASTM D1056
Mechanical properties		
Compression set	25% max	ASTM D1056
Tensile strength	50 psi min 345 kPa min	ASTM D412 (Die A)
Elongation	75% min	ASTM D412 (Die A)
Tear strength	9 lb/in min 1.58 kN/m min	ASTM D624 (Die C)
Hardness durometer shore 00	30 - 50	ASTM D2240
Resilience	20 - 40%	ASTM D2632
Fluid immersion	100% max	ASTM D1056

Property	Value / Assessment	Standard / Test method
Compression deflection		
Compression deflection 25%	2 - 5 psi 13.8 - 34.5 kPa	ASTM D1056
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 insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,100 employees and 26 production plants in 20 countries, Armacell 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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