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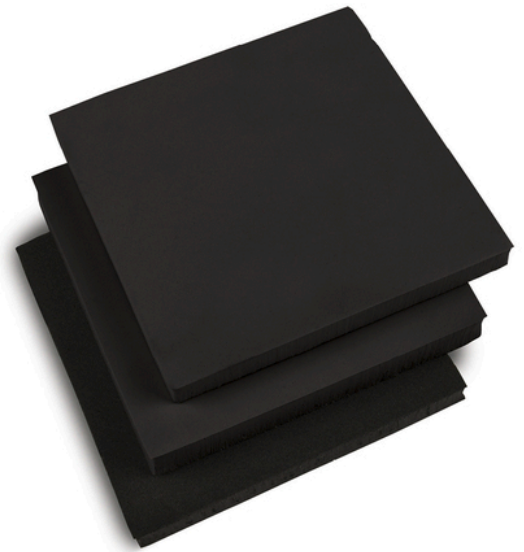
# EnsoLite IG2

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

- // Soft to medium firmness
- // Superior oil and fuel resistance
- // Superior flame performance
- // Penn DOT approved



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## TECHNICAL DATA - ENSOLITE IG2

Brief description	IG2 is a NBR/PVC/CR closed cell foam product produced in continuous 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. Additionally, this product has good recovery after compression and excellent oil/fuel resistance.
Product color range	Black
ASTM D 1056 Designation	2A2/2C2/2B2
Cell structure	Closed
Form	Roll
Polymer	NBR/PVC/CR
Markets	Building / Construction, Automotive
Applications	Gaskets and seals

Source	Specification	Comments
<b>Approvals and specifications</b>		
Penn DOT	Bulletin 15 Section 1085.2 (m)1	Type 2, Class C, Grade 2
Penn DOT	Bulletin 15 Section 1107.02 (p)	Type 2, Class C, Grade 2

Property	Value / Assessment				Standard / Test method
<b>Temperature range</b>					
Service temperature	Min. °C	Min. °F	Max. °C (intermittent)	Max. °F (intermittent)	ASTM D1056
	-40	-40	93.3	200	
<b>Flammability</b>					
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
<b>UL standards</b>					
UL94 5VA	Passes at 6.2 mm (0.244 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094				UL 94
UL94 HBF	Passes at 3.9 mm (0.153 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094				UL 94
UL94 HF-1	Passes at 1.7 mm (0.067 in) - 3.8 mm (0.150 in) thickness only 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
<b>Resistance to water</b>					
Water absorption by vacuum	5% max				ASTM D1056
<b>Physical attributes</b>					
Density	5.5 - 7.5 lb/ft <sup>3</sup> 88.1 - 120 kg/m <sup>3</sup>				ASTM D1056
<b>Mechanical properties</b>					
Compression set	25% max				ASTM D1056

Property	Value / Assessment	Standard / Test method
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)
Hardness durometer shore 00	40 - 60	ASTM D2240
Resilience	10 - 30%	ASTM D2632
Fluid immersion	100% max	ASTM D1056
<b>Compression deflection</b>		
Compression deflection 25%	5 - 9 psi 34.5 - 62.1 kPa	ASTM D1056
Change in compression deflection	±30 %	ASTM D1056
<b>UL Listed</b>		
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.

For more information, please visit:  
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