



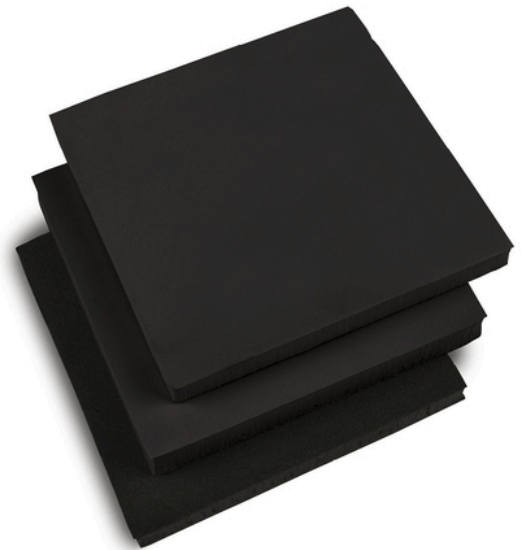
DRIVEN BY PERFORMANCE

EnsoLite SF0

Engineered semi-closed cell solution for space filling and sealing against air, dust, and noise.

- // Super soft firmness
- // Good sound absorption properties
- // Good flame performance
- // Meets OEM specifications

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TECHNICAL DATA - ENSOLITE SFO

Brief description	SFO is a NBR/PVC, super soft, crushed foam produced in continuous rolls. This product meets ASTM D 1056 1A0 requirements with an exception to elevated temperature compression set. This product is UL listed to UL94 flammability. This product meets various automotive specifications.
Product color range	Black
ASTM D 1056 Designation	1A0*
ASTM D1056 Exception	*50% compression set at elevated temperature 70°C (158°F)
Cell structure	Semi-closed
Form	Roll
Polymer	NBR/PVC
Markets	Automotive
Applications	Gaskets and seals

Source	Specification	Comments
Approvals and specifications		
General Motors	GMW 17408 Class I Type I	Interior & Exterior Applications Exception to compression set @ 70°C (158°F) & fogging
Stellantis (FCA / Chrysler)	MSAY 522 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
UL standards					
UL94 HBF	Passes at 8.0 mm (0.315 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094				UL 94
Physical attributes					
Density	3.5 - 5.5 lb/ft ³ 56 - 88 kg/m ³				ASTM D1056
Mechanical properties					
Compression set	25% max				ASTM D1056
Compression set (Elevated temperature)	90% max				ASTM D1056
Tensile strength	15 psi min 103 kPa min				ASTM D412 (Die A)
Elongation	100% min				ASTM D412 (Die A)
Tear strength	4 lb/in min 0.7 kN/m min				ASTM D624 (Die C)

Property	Value / Assessment	Standard / Test method
Compression deflection		
Compression deflection 25%	0.43 psi max 2.96 kPa max	ASTM D1056
Compression deflection 50%	0.90 psi max 6.21 kPa max	ASTM D1056
Compression deflection 50% - 60 sec hold	0.725 psi max 5.0 kPa max	ISO 3386-1
Change in compression deflection ¹	±20 %	ASTM D1056

¹If this grade after aging still falls within the compression-deflection requirement of <2 psi (<13.8 kPa), it shall be considered acceptable even though the change from the original is greater than ±20%.

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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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