



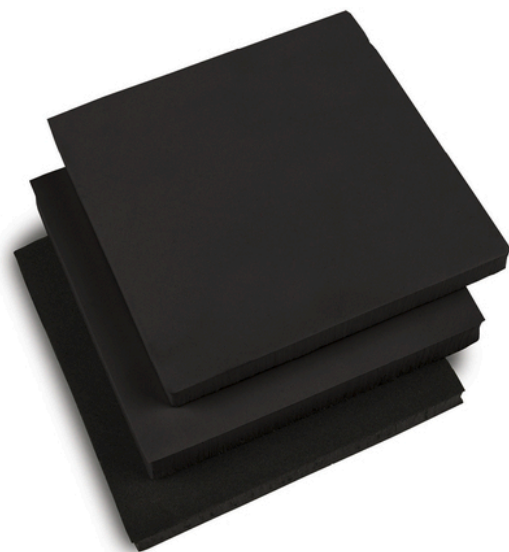
FIRST CLASS INNOVATION

# EnsoLite ECF-400

Engineered semi-closed cell solution for sealing complex gaps against air, dust, and noise.

- // Super soft firmness
- // Good sound absorption
- // Excellent resistance to ozone
- // Broad service temperature range
- // Meets OEM specifications

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## TECHNICAL DATA - ENSOLITE ECF-400

Brief description	ECF-400 is a 100% EPDM, super soft, semi-closed cell foam product 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 and UL gasket & seals. This product meets various automotive specifications and is an excellent solution for low temperature, outdoor and/or noise reduction applications.
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	100% EPDM
Markets	Automotive
Applications	Gaskets and seals, Acoustical

Source	Specification	Comments
<b>Approvals and specifications</b>		
General Motors	GMW 17408 Class I Type I	Interior, Exterior & Under-hood Applications Exception to compression set @ 70°C (158°F) & fogging
Stellantis (FCA / Chrysler)	MSAY 550 MS.90145 Type 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
	-56	-70	121	250	
<b>Flammability</b>					
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
<b>UL standards</b>					
UL94 HBF	Passes at 3.3 mm (0.130 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094				UL 94
<b>Physical attributes</b>					
Density	4.0 - 8.0 lb/ft <sup>3</sup> 64 - 128 kg/m <sup>3</sup>				ASTM D1056
<b>Mechanical properties</b>					
Compression set	5% max				ASTM D1056
Tensile strength	15 psi min 103 kPa min				ASTM D412 (Die A)
Elongation	150% min				ASTM D412 (Die A)
Tear strength	4 lb/in min 0.70 kN/m min				ASTM D624 (Die C)
Hardness durometer shore 00	5 - 10				ASTM D2240

Property	Value / Assessment	Standard / Test method
<b>Compression deflection</b>		
Compression deflection 25%	1 psi max 6.89 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	±20 %	ASTM D1056
<b>UL Listed</b>		
UL gaskets and seals	UL File # JMST2.MH10189 UL50 and UL50E continuous compression applications for enclosure types: 2, 3, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P UL gaskets & seals max service temperature: 60°C (140°F)	UL 50E, UL 50

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## ABOUT ARMACELL

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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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