



ENGINEERED FOR
PERFORMANCE

EnsoLite OER

Engineered solution that provides thermal insulation properties and protection from dust, debris, and moisture.

- // Soft firmness
- // Good resistance to oil and fuel
- // Superior flame performance
- // Continuous rolls provide great economies in fabrication

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MAKING A DIFFERENCE AROUND THE WORLD

TECHNICAL DATA - ENSOLITE OER

Brief description	OER is an NBR/PVC, closed cell product produced in continuous rolls. It is a soft, low density foam that meets ASTM D 1056 2C1 requirements. This product has excellent flame performance and is UL listed to UL94 flammability.
Product color range	Black
ASTM D 1056 Designation	2A1/2C1
Cell structure	Closed
Form	Roll
Polymer	NBR/PVC
Markets	Equipment

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 0.250 in (6.35 mm) and higher				FMVSS 302
UL standards					
UL94 5VA	Passes at 6 mm (0.236 in) minimum thickness UL File # QMFZ2.E55798 & # QMFZ8.E55798				UL 94
UL94 V-0	Passes at 6 mm (0.236 in) minimum thickness UL File # QMFZ2.E55798 & # QMFZ8.E55798				UL 94
Resistance to water					
Water absorption by vacuum	10% max				ASTM D1056
Physical attributes					
Density	3 - 6 lb/ft ³ 48.1 - 96.1 kg/m ³				ASTM D1056
Mechanical properties					
Compression set	40% max				ASTM D1056
Tensile strength	15 psi min 103 kPa min				ASTM D412 (Die A)
Elongation	100% min				ASTM D412 (Die A)
Fluid immersion	250% max				ASTM D1056
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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ABOUT ARMACELL

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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