

INDUSTRIAL STRENGTH

EnsoLite[®] IR42

Closed cell PVC/NBR/CR foam in continuous rolls/sheets form

// ASTM D 1056 2A2/2C2/2B2

// Manufactured in continuous rolls/sheets

// Available in skin 2 sides only

// UL Listed: UL94 HBF

// UL Listed: UL50E (gaskets and seals)

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 **armacell**[®]
ArmaComp[™]

ENSOLITE IR42 | Closed cell PVC/NBR/CR foam in continuous rolls/sheets form

EnsoLite IR42: Armacell (Conover, NC Plant) manufactures a black, continuous, (rolls/sheets) closed cell, 6.0 - 12 lb/ft³ (96 - 192 kg/m³) density, PVC/NBR/CR rubber product IR42, that meets the requirements of ASTM D 1056 2A2/2C2/2B2. IR42 has excellent resistance to oil and fuel. IR42 meets the horizontal burn/flame requirements of FMVSS 302 at 0.125" (1/8") (3.18 mm) & higher. IR42 is listed to UL94 HBF at 6 mm (0.236") & higher (UL File# QMTR2.E520115). IR42 is UL listed to UL 50E [periodic & continuous compression] (UL File # JMST2.MH30018).

TECHNICAL DATA SHEET | ROLLS/SHEETS (effective 29MAR21)

POLYMER: NBR/PVC/CR

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A2/2C2/2B2	
Cell Structure	-	-	Closed	
Color	-	-	Black	
Compression Deflection 25%	ASTM D 1056	psi kPa	5* - 11* 34.5* - 75.8*	
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30	
Compression Set (Room temp)	ASTM D 1056	%	25 max	
Density	ASTM D 1056	lb/ft ³ kg/m ³	6* - 12* 96* - 192*	
Elongation	ASTM D 412 (Die A)	%	100 min	
Flammability	FMVSS 302	in mm	0.125 and higher 3.18 and higher	
Fluid Immersion	ASTM D 1056	%	100 max	
Hardness, Durometer Shore 00	ASTM D 2240	-	45 - 65	
Service Temperature	Low	ASTM D 1056	°F °C	-40 -40
		High Intermittent	°F °C	200 93.3
Tear Strength	ASTM D 624 (Die C)	lb/in	13 min	
		kN/m	2.3 min	
Tensile Strength	ASTM D 412 (Die A)	psi	75 min	
		kPa	517 min	
Water Absorption	ASTM D 1056	%	5 max	

UL Listed to: UL94 (Flame) HBF (UL file# QMTR2.E520115) at 6.0 mm minimum thickness

* Thicknesses ≤ 0.25" (6.35 mm) the 25% CD is 5 - 11 psi (34.5 - 75.8 kPa) & the Density is 6 - 12 lb/ft³ (96 - 192 kg/m³)
Thicknesses > 0.25" (6.35 mm) the 25% CD is 5 - 9 psi (34.5 - 62 kPa) & the Density is 6 - 10 lb/ft³ (96 - 160 kg/m³)

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3,200 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

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