

DRIVEN BY PERFORMANCE

EnsoLite[®] IV3

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

// ASTM D 1056 2A3/2C3/2B3

// Manufactured in continuous rolls / sheets

// UL Listed: UL94 HBF, HF-1, V-0, 5VA & 5VB

// Listed on the approved source list for Stellantis (FCA / Chrysler) MSAY 516 Type 3,
Gulfstream Aerospace GAP 105 K and GMW 17408 Class I Type V.

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 **armacell**[®]
ArmaComp[™]

ENSOLITE IV3 | Closed cell PVC/NBR/CR foam in continuous rolls / sheets form

EnsoLite IV3: Armacell (Conover, NC Plant) manufactures a black, continuous, closed cell, medium density (7 - 9.5 lb/ft³) (112 - 152 kg/m³) PVC/NBR/CR rubber product IV3, that meets all the physical property requirements of ASTM D 1056 2A3 / 2C3 / 2B3. IV3 has excellent resistance to oil and fuel. IV3 meets the horizontal burn / flame requirements of FMVSS 302 at 0.125" (1/8") (3.18 mm) & higher. IV3 without skin is listed to UL94 HF-1 at 1.3 mm (0.051") and higher, V-0 & 5VA at 6.2 mm (0.244") and higher. IV3 with skin 1 side is listed to UL94 HF-1 at 1.5 - 7.0 mm (0.059" - 0.275") and higher, HBF at 7.1 mm (0.280") and higher, V-0 & 5VA at 11.6 mm (0.456") and higher, V-0 & 5VB at 6.12 mm (0.241") and higher (UL File # QMFZ2.E55798). **IV3 is listed on the approved source list of Stellantis (FCA / Chrysler) MSAY 516 Type 3, Gulfstream Aerospace GAP 105 K and GMW 17408 Class I Type V.**

TECHNICAL DATA SHEET | ROLLS/SHEETS (effective 7/19/2022)

POLYMER: PVC/NBR/CR

Physical Property	Test Method	Unit	Value
ASTM D 1056 Designation	-	-	2A3 2C3 2B3
Cell Structure	-	-	Closed
Color	-	-	Black
Compression Deflection 25%	ASTM D 1056	psi kPa	9 - 13 62.1 - 89.6
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30
Compression Deflection 50%, 60 second hold	ISO 3386-1	psi kPa	14.07 - 24.9 91.01 - 172
Compression Set (Room temp)	ASTM D 1056	%	35 max
Density	ASTM D 1056	lb/ft ³ kg/m ³	7 - 9.5 112.1 - 152.2
Elongation	ASTM D 412 (Die A)	%	100 min
Flammability	FMVSS 302	in mm	0.098 and higher 2.5 and higher
Fluid Immersion	ASTM D 1056	%	100 max
Hardness, Durometer Shore 00	ASTM D 2240	-	60 - 80
Resilience	ASTM D 2632	-	10 - 30
Service Temperature	Low	°F °C	-40 -40
	High Intermittent	°F °C	200 93.3
Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	20 min 3.5 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	100 min 690 min
Water Absorption	ASTM D 1056	%	5 max

UL Listed to UL94 (Flame) HBF (UL file# QMFZ2.E55798) at 7.1 mm minimum thickness (S1S)
 UL Listed to UL94 (Flame) HF-1 (UL file# QMFZ2.E55798) at 1.3 mm minimum thickness (no skin) 1.5 - 7.0 mm only (S1S)
 UL Listed to UL94 (Flame) V-0 (UL file# QMFZ2.E55798) at 6.2 mm minimum thickness (no skin) 6.12 mm minimum thickness (S1S)
 UL Listed to UL94 (Flame) 5VA (UL file# QMFZ2.E55798) at 6.2 mm minimum thickness (no skin) 11.6 mm minimum thickness (S1S)
 UL Listed to UL94 (Flame) 5VB (UL file# QMFZ2.E55798) at 6.12 mm minimum thickness (S1S)

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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 EnsoLite IV3 | Data Sheet | 012023 | NA | EN-A

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 3,100 employees and 26 production plants in 18 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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