

DRIVEN BY PERFORMANCE

# EnsoLite<sup>®</sup> MLC-Black

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

// ASTM D 1056 2A1/2C1

// Manufactured in continuous rolls/sheets

// UL Listed: UL94 HF-1 & HBF

// UL Listed: UL50E (gaskets and seals)

// Listed on the approved source list for FCA (Chrysler) MSAY 516 Type 1,  
Caterpillar 1E0707E & GMW 17408 Class IIIA Type IV.

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 **armacell**<sup>®</sup>  
ArmaComp<sup>™</sup>

## ENSOLITE MLC-BLACK | Closed cell PVC/NBR foam in continuous rolls/sheets form

**EnsoLite MLC-Black:** Armacell (Conover, NC Plant) manufactures a black, continuous (sheets/rolls), closed cell, 3.5 - 5.5 lb/ft<sup>3</sup> (56 - 88 kg/m<sup>3</sup>) density, PVC/NBR rubber product MLC-Black, that meets the requirements of ASTM D 1056 2A1/2C1. MLC-Black meets the horizontal burn/flame requirements of FMVSS 302 at 0.250" (1/4") (6.35 mm) & higher. MLC-Black is UL listed to UL94 HBF at 6.6 mm (0.260") & higher and UL94 HF-1 at 2.9 - 6.6 mm (0.114" - 0.260") (UL File #: QMFZ2.E55798). MLC-Black is listed with UL to UL50E [periodic & continuous compression] (UL File # JMST2.MH10189). **MLC-Black is listed on the following approved source lists: FCA (Chrysler) MSAY 516 Type 1, Caterpillar 1E0707E & GMW 17408 Class IIIA Type IV.**

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

#### POLYMER: PVC/NBR

Physical Property	Test Method	Unit	Value
ASTM D 1056 Designation	-	-	2A1/2C1
Cell Structure	-	-	Closed
Color	-	-	Black
Compression Deflection 25%	ASTM D 1056	psi kPa	2 - 3.5 13.8 - 24.1
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30
Compression Set (Room temp)	ASTM D 1056	%	40 max
Density	ASTM D 1056	lb/ft <sup>3</sup> kg/m <sup>3</sup>	3.5 - 5.5 56.1 - 88.1
Elongation	ASTM D 412 (Die A)	%	150 min
Flammability	FMVSS 302	in mm	0.25 and higher 6.35 and higher
Fluid Immersion	ASTM D 1056	%	250 max
Hardness, Durometer Shore 00	ASTM D 2240	-	20 - 40
Service Temperature	ASTM D 1056	°F °C	-40 -40
	High Intermittent	°F °C	200 93.3
Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	8 min 1.4 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	40 min 276 min
Water Absorption	ASTM D 1056	%	5 max

UL Listed to: UL94 (Flame) HBF (UL file# QMFZ2.E55798) at 6.6 mm minimum thickness  
UL Listed to: UL94 (Flame) HF-1 (UL file# QMFZ2.E55798) at 2.9 - 6.6 mm only

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.

For more information, please visit:

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