

INDUSTRIAL STRENGTH

EnsoLite[®] NP77

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

// ASTM D 1056 2A1/2C1/2B1

// Manufactured in continuous rolls/sheets

// Oil and fuel resistant

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

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 **armacell**[®]
ArmaComp[™]

ENSOLITE NP77 | Closed cell PVC/NBR foam in continuous rolls/sheets form

EnsoLite NP77: Armacell (Conover, NC Plant) manufactures a black, continuous (rolls/sheets), closed cell, medium density 4.5 - 8.5 lb/ft³ (72 - 136 kg/m³) PVC/NBR product NP77, that meets the requirements of ASTM D 1056 2A1/2C1/2B1. NP77 has excellent resistance to oil and fuel. NP77 meets the requirements of FMVSS 302 at 0.250" (1/4") (6.35 mm) & higher. NP77 is UL listed to UL94 HF-1 and UL94 V0/5VA @ 6.8 mm (0.267") and higher (UL File# QMFZ2.E55798).

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

POLYMER: NBR/PVC

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A1/2C1/2B1	
Cell Structure	-	-	Closed	
Color	-	-	Black	
Compression Deflection 25%	ASTM D 1056	psi kPa	2 - 5 13.8 - 34.5	
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30	
Compression Set (Room temp)	ASTM D 1056	%	35 max	
Density	ASTM D 1056	lb/ft ³ kg/m ³	4.5 - 8.5 72.1 - 136	
Elongation	ASTM D 412 (Die A)	%	100 min	
Flammability	FMVSS 302	in mm	0.25 and higher 6.35 and higher	
Fluid Immersion	ASTM D 1056	%	100 max	
Hardness, Durometer Shore 00	ASTM D 2240	-	20 - 40	
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	TBD min	
		kN/m	TBD min	
Tensile Strength	ASTM D 412 (Die A)	psi kPa	30 min 207 min	
Water Absorption	ASTM D 1056	%	10 max	

UL Listed to: UL94 (Flame) HF-1 (UL file# QMFZ2.E55798) at 6.8 mm minimum thickness

UL Listed to: UL94 (Flame) V-0 (UL file# QMFZ2.E55798) at 6.8 mm minimum thickness

UL Listed to: UL94 (Flame) 5VA (UL file# QMFZ2.E55798) at 6.8 mm minimum thickness

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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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