DRIVEN BY PERFORMANCE

Monarch® 2001

Closed cell Neoprene based foam in bun form

// ASTM D 1056 2A1 / 2C1
// Manufactured in buns (blocks)
// UL Listed: UL50E, UL48 & UL508 (gaskets and seals)
// Listed on the approved source list for MAHLE GN AR 06220 Par 6.7 & GMW 17408 Class I Type IV (see Note 1)

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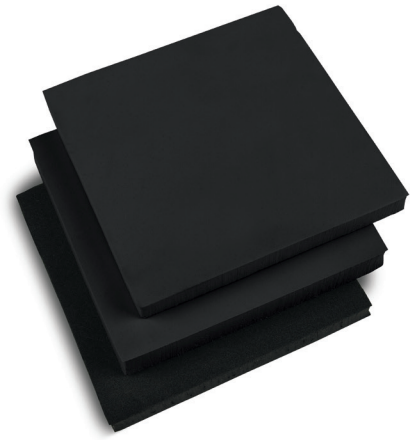

armacell®
ArmaComp™

MONARCH 2001 | Closed cell Neoprene based foam in bun form

Monarch 2001: Armacell (Spencer, WV Plant) manufactures a black, closed cell, 7 - 11 lb./ft^3 (112 - 176 kg/m^3) density Neoprene based rubber product 2001, that meets the physical property requirements of ASTM D 1056 2A1 / 2C1. 2001 meets the horizontal burn / flame requirements of FMVSS 302 at 0.125" (1/8") (3.18 mm). 2001 is listed with UL to UL50E [periodic & continuous compression], UL48 & UL508 (UL File#: JMLU2.MH25062 / JMST2.MH10189). **2001 is listed as an approved source for MAHLE GN AR 06220 Par 6.7 previously Delphi SD2-207 Par 6.7 and GMW 17408 Class I Type IV.**

TECHNICAL DATA SHEET | BUNS (effective 12/7/2022)

POLYMER: NEOPRENE BASED

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 - 5 13.8 - 34.5
Compression Deflection 50%, 60 second hold		ISO 3386-1	psi kPa	6.96 - 14.06 48.01 - 97
Compression Deflection 25%, after Heat Aging		ASTM D 1056	%	± 30
Compression Set (Room temp)		ASTM D 1056	%	30 max
Density		ASTM D 1056	lb/ft^3 kg/m^3	7 - 11 112 - 176
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	%	250 max
Hardness, Durometer Shore 00		ASTM D 2240	–	45 - 65
Resilience		ASTM D 2632	%	10 - 20
Service Temperature	Low	ASTM D 1056	°F °C	-40 -40
	High Continuous	_	°F °C	150 65.5
	High Intermittent	_	°F °C	200 93.3
Tear Strength		ASTM D 624 (Die C)	lb/in kN/m	12 min 2.1 min
Tensile Strength		ASTM D 412 (Die A)	psi kPa	60 min 414 min
Water Absorption		ASTM D 1056	%	5 max

Note 1: On approved source list for GMW 17408 Class I Type IV. Applications: Interior & exterior applications

Monarch | DataSheet | 032023 | NA | EN-A

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 27 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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