

DRIVEN BY PERFORMANCE

Monarch[®] 2003

Closed cell Neoprene based foam in bun form

// ASTM D 1056 2A3 / 2C3

// Manufactured in buns (blocks)

// Higher density closed cell expanded rubber

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MONARCH 2003 | Closed cell Neoprene based foam in bun form

Monarch 2003: Armacell (Spencer, WV Plant) manufactures a black, closed cell, 12 - 20 lb/ft³ (192 - 320 kg/m³) density neoprene based rubber product 2003, that meets all the requirements of ASTM D1056 2A3 / 2C3. 2003 meets the horizontal burn / flame requirements of FMVSS 302 at 0.250" (1/4") (6.35 mm) & higher.

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

POLYMER: NEOPRENE BASED

Physical Property	Test Method	Unit	Value
ASTM D 1056 Designation	-	-	2A3 2C3
Cell Structure	-	-	Closed
Color	-	-	Black
Compression Deflection 25%	ASTM D 1056	psi kPa	9 - 13 62 - 89.6
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	12 - 20 192 - 320
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	%	150 max
Hardness, Durometer Shore 00	ASTM D 2240	-	65 -85
Resilience	ASTM D 2632	%	5 - 15
Service Temperature	Low	ASTM D 1056	°F °C
	High Continuous	-	°F °C
	High Intermittent	-	°F °C
Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	16 min 2.8 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	120 min 827 min
Water Absorption	ASTM D 1056	%	5 max

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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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