

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 FMVSS 302 at 0.250" (1/4") (6.35 mm) & higher.

TECHNICAL DATA SHEET | BUNS (effective 26FEB21)

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	-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	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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Monarch 2003 | DataSheet | 032021 | 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 3,135 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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