

BUILT TO LAST

Monarch[®] 2045

Closed cell Neoprene based foam in bun form

// ASTM D 1056 2A5/2C5

// Manufactured in buns (blocks)

// Higher density closed cell expanded rubber

// Listed as an approved source on Penn DOT Bulletin 15 Section 1085.2 (m)

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ArmaComp[™]

MONARCH 2045 | Closed cell Neoprene based foam in bun form

Monarch 2045: Armacell (Spencer, WV Plant) manufactures a black, closed cell, 15 - 23 lb/ft³ (240 - 368 kg/m³) density, Neoprene based rubber product 2045, that meets the requirements of ASTM D 1056 2A5 / 2C5. 2045 does not incorporate a flame retardant but meets the horizontal burn / flame requirements of FMVSS 302 at 3/16" (0.188") (4.76 mm) and higher. **2045 is listed as an approved source on Penn DOT Bulletin 15 Section 1085.2 (m).**

TECHNICAL DATA SHEET | BUNS (effective 1/6/2023)

POLYMER: NEOPRENE BASED

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A5/2C5	
Cell Structure	-	-	Closed	
Color	-	-	Black	
Compression Deflection 25%	ASTM D 1056	psi kPa	17 - 25 117 - 172	
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	15 - 23 240 - 368	
Elongation	ASTM D 412 (Die A)	%	175 min	
Flammability	FMVSS 302	in mm	0.188 and higher 4.76 and higher	
Fluid Immersion	ASTM D 1056	%	150 max	
Hardness, Durometer Shore 00	ASTM D 2240	-	65 - 85	
Resilience	ASTM D 2632	%	20 - 30	
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	25 min 4.4 min	
Tensile Strength	ASTM D 412 (Die A)	psi kPa	150 min 1034 min	
Water Absorption	ASTM D 1056	%	5 max	

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Monarch 2045 | 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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