BUILT TO LAST

Monarch® 2045

Closed cell Neoprene based foam in bun form

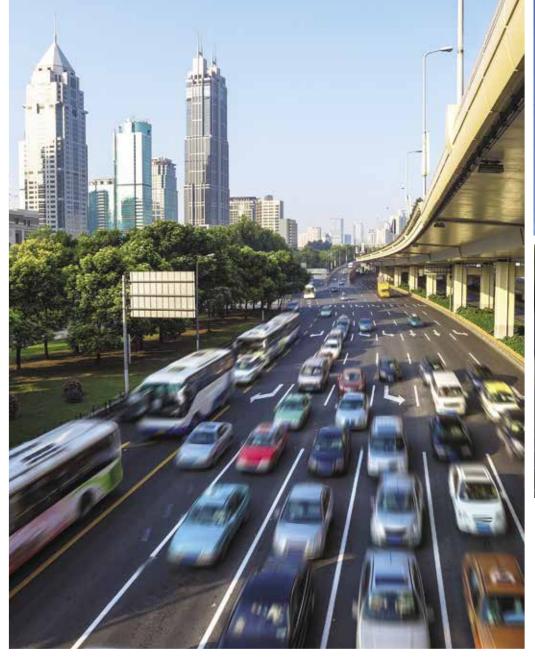
// ASTM D 1056 2A5/2C5

// Manufactured in buns (blocks)

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

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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" (0.1875") (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 26FEB21)

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/ft³ kg/m³	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	%	25 - 35
	Low	ASTM D 1056	°F °C	-40 -40
Service Temperature	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

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell data and technical information or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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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 3,135 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.

