

DRIVEN BY PERFORMANCE

Monarch[®] 2043

Closed cell Neoprene based foam in bun form

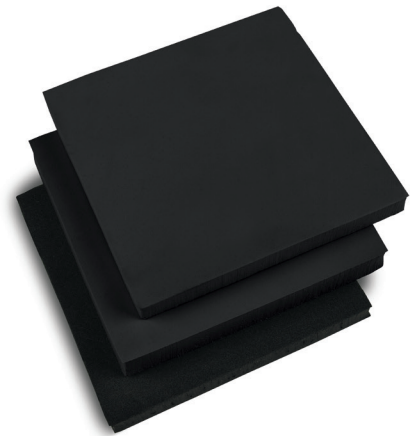
// ASTM D 1056 2A3 / 2C3

// Manufactured in buns (blocks)

// Higher density closed cell expanded rubber

// Listed on the approved source list for Lockheed Martin P5277-2-X

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ArmaComp[™]

MONARCH 2043 | Closed cell Neoprene based foam in bun form

Monarch 2043: Armacell (Spencer, WV Plant) manufactures a black, closed cell, 12 - 16 lb/ft³ (192 - 255 kg/m³) density neoprene based rubber product 2043, that meets all the requirements of ASTM D1056 2A3 / 2C3. 2043 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. **2043 is on the approved source list for Lockheed Martin P5277-2-X.**

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 - 16 192 - 255
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	-	55 -75
Resilience	ASTM D 2632	%	20 - 30
Service Temperature	Low	ASTM D 1056	°F °C
	High Continuous	-	150 65.5
	High Intermittent	-	200 93.3
Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	18 min 3.2 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	140 min 965 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 does not make any representation 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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Monarch 2043 | 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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