

DRIVEN BY PERFORMANCE

Monarch[®] 4053

Closed cell Epichlorohydrin (ECH) based foam in bun form

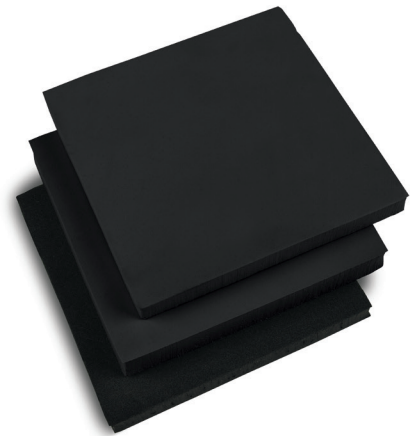
// ASTM D 1056 2A3 / 2C3 / 2B3

// Manufactured in buns (blocks)

// Higher density, specialty expanded rubber

// Oil and fuel resistant at elevated temperatures

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 **armacell**[®]
ArmaComp[™]

MONARCH 4053 | Closed cell Epichlorohydrin (ECH) based foam in bun form

Monarch® 4053: Armacell (Spencer, WV Plant) manufactures a closed cell, black 15 - 21 lb/ft³ (240 - 336 kg/m³) density, Epichlorohydrin (ECH) based rubber product 4053, that meets the physical property requirements of ASTM D 1056 2A3 / 2C3 / 2B3. 4053 has excellent resistance to heat and oils and fuels. 4053 does not incorporate a flame retardant but meets the horizontal burn / flame requirements of FMVSS 302 at 3.18 mm (0.125") (1/8") and higher.

TECHNICAL DATA SHEET | BUNS (effective 1/18/2023)

POLYMER: ECH

Physical Property	Test Method	Unit	Value
ASTM D 1056 Designation	-	-	2A3 / 2C3 / 2B3
Cell Structure	-	-	Closed
Color	-	-	Black
Compression Deflection 25%	ASTM D 1056	psi kPa	9 - 13 62.1 - 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	15 - 21 240 - 336
Elongation	ASTM D 412 (Die A)	%	175 min
Flammability	FMVSS 302	in mm	0.125 and higher 3.18 and higher
Fluid Immersion	ASTM D 1056	%	50 max
Hardness, Durometer Shore 00	ASTM D 2240	-	50 - 70
Resilience	ASTM D 2632	%	25 - 35
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	20 min 3.5 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	80 min 552 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 4053 | 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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