

DRIVEN BY PERFORMANCE

Monarch[®] 5055

Closed cell EPDM/CR/SBR blend foam in bun form

// ASTM D 1056 2A5

// Manufactured in buns (blocks)

// UL Listed: UL94 HBF

// UL Listed: UL50E, UL48 & UL508 (gaskets and seals)

// Listed on the approved source list for GMW 17408 Class I Type V

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ArmaComp[®]

MONARCH 5055 | Closed cell EPDM/CR/SBR blend foam in bun form

Monarch 5055: Armacell (Spencer, WV Plant) manufactures a black, general purpose, 11 - 15 lb/ft³ (176 - 240 kg/m³) density, closed cell, EPDM / Neoprene / SBR blended rubber product 5055, that meets the physical property requirements of ASTM D 1056 2A5. 5055 meets the requirements of UL94 HBF @ 1.8 mm & higher (UL File #: QMFZ2.E55798). 5055 meets the horizontal burn / flame requirements of FMVSS 302, 4 inches per minute burn rate max., at 2.5 mm (0.098") and higher. 5055 is also listed with UL to UL50E [periodic & continuous compression], UL48 & UL508 (UL File #: JMLU2.MH25062). **5055 is listed as an approved source for GMW 17408 Class I Type V.**

TECHNICAL DATA SHEET | BUNS (effective 26FEB21)

POLYMER: EPDM/CR/SBR

Physical Property	Test Method	Unit	Value
ASTM D 1056 Designation	-	-	2A5
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	11 - 15 176 - 240
Elongation	ASTM D 412 (Die A)	%	125 min
Flammability	FMVSS 302	in mm	0.098 and higher 2.5 and higher
Hardness, Durometer Shore 00	ASTM D 2240	-	65 - 85
Resilience	ASTM D 2632	%	17 - 27
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	25 min 4.4 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	100 min 690 min
Water Absorption	ASTM D 1056	%	5 max

UL Listed to: UL94 (Flame) HBF (UL file# QMFZ2.E55798) at 1.8 mm minimum thickness

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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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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