

DRIVEN BY PERFORMANCE

Monarch[®] 5031

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

// ASTM D 1056 2A1

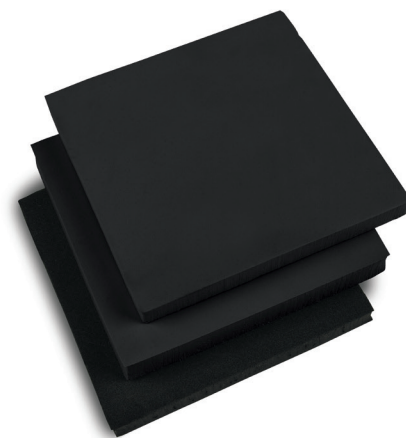
// Manufactured in buns (blocks)

// UL Listed: UL94 HF-1

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

// Listed on the approved source list for MAHLE [Delphi] GN AR 06220 Par 6.1
[MAHLE GN AR 06346] and GMW 17408 Class I Type IV [see Note 1]

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 **armacell**[®]
ArmaComp[™]

MONARCH 5031 | Closed cell EPDM / CR / SBR blend foam in bun form

Monarch® 5031: Armacell (Spencer, WV Plant) manufactures a black, closed cell, 4 - 8 lb/ft³ (64 - 128 kg/m³) density, EPDM / CR / SBR blended rubber product 5031, that meets the physical property requirements of ASTM D 1056 2A1. 5031 incorporates flame retardants, meets the horizontal burn / flame requirements of FMVSS 302 at 2.5 mm [0.098"] and higher. 5031 is listed with UL to UL94 HF-1 (UL File #: QMFZ2.E55798). 5031 is listed with UL to UL50E [periodic & continuous compression] UL48 & UL508 (UL File#: JMLU2.MH25062). This product is also available in gray (5931 - UL50E / UL48 / UL508 listed but not UL94 listed). **5031 is listed on the approved source list for GMW 17408 Class I Type IV and MAHLE [Delphi] GN AR 06220 Par 6.1 [MAHLE GN AR 06346].**

TECHNICAL DATA SHEET | BUNS (effective 2/10/2023)

POLYMER: EPDM/CR/SBR

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A1	
Cell Structure	-	-	Closed	
Color	-	-	Black (also available in Gray (5931))	
Compression Deflection 25%	ASTM D 1056	psi kPa	2 - 5 13.8 - 34.5	
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30	
Compression Deflection 50%, 60 second hold	ISO 3386-1	psi kPa	6.96 - 14.06 48.01 - 97	
Compression Set (Room temp)	ASTM D 1056	%	45 max	
Density	ASTM D 1056	lb/ft ³ kg/m ³	4 - 8 64 - 128	
Elongation	ASTM D 412 (Die A)	%	100 min	
Flammability	FMVSS 302	in mm	0.098 and higher 2.5 and higher	
Hardness, Durometer Shore 00	ASTM D 2240	-	40 - 60	
Resilience	ASTM D 2632	%	28 - 38	
Service Temperature	Low	ASTM D 1056	°F °C	-40 -40
	High Continuous	-	°F °C	200 93.3
	High Intermittent	-	°F °C	250 121
	Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	7.1 min 1.24 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	45 min 310 min	
Water Absorption	ASTM D 1056	%	5 max	

UL Listed to: UL94 (Flame) HF-1 (UL file# QMFZ2.E55798) at 1.5 mm minimum thickness

Note 1: On approved source list for GMW 17408 Class I Type IV. Applications: Interior & exterior applications.

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Monarch 5031 | 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.

For more information, please visit:

www.armacell.us

info.cf.us@armacell.com

800-973-0490

