

DRIVEN BY PERFORMANCE

# Monarch<sup>®</sup> 5931

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

// ASTM D 1056 2A1

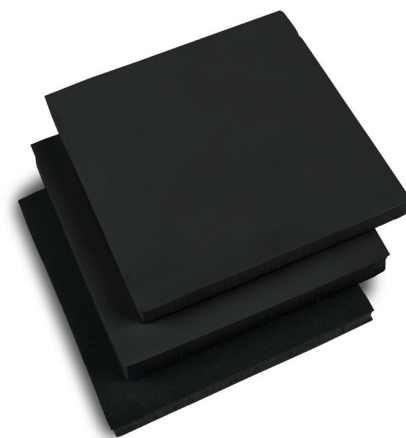
// Manufactured in buns (blocks)

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

// Color gray, available in black (5031)

// Listed on the approved source list for MAHLE [Delphi] GN AR 06220 Par 6.1  
[MAHLE GN AR 06346].

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 **armacell**<sup>®</sup>  
ArmaComp<sup>™</sup>

## MONARCH 5931 | Closed cell EPDM / CR / SBR blend foam in bun form

**Monarch® 5931:** Armacell LLC (Spencer, WV Plant) manufactures a gray, closed cell, 4 - 8 lb./ft<sup>3</sup> ( 64 - 128 kg/m<sup>3</sup>) density, EPDM / Neoprene / SBR blended rubber product 5931, that meets all the physical property requirements of ASTM D 1056 2A1. 5931 incorporates flame retardants and meets the horizontal burn / flame requirements of FMVSS 302 at 2.5 mm (0.098") and higher. 5931 is listed with UL to UL 50E [periodic & continuous compression], UL48 & UL 508 (UL File#: JMLU2.MH25062). This product is also available in black (5031). **5931 is listed as an approved source for 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	-	-	Gray [also available in Black (5031)]	
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 Set (Room temp)	ASTM D 1056	%	45 max	
Density	ASTM D 1056	lb/ft <sup>3</sup> kg/m <sup>3</sup>	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	

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 5931 | Data Sheet | 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:

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