

DRIVEN BY PERFORMANCE

# Monarch<sup>®</sup> 5021

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

// ASTM D 1056 2A1

// Manufactured in buns (blocks)

// Color black, also available in gray (5921)

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

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

## MONARCH 5021 | Closed cell EPDM/CR/SBR blend foam in bun form

**Monarch 5021:** Armacell (Spencer, WV Plant) manufactures a black, closed cell, 4 - 8 lb/ft<sup>3</sup> (64 - 128 kg/m<sup>3</sup>) density, general purpose, EPDM / Neoprene / SBR blended rubber product 5021, that meets the physical property requirements of ASTM D 1056 2A1. 5021 does not incorporate a flame retardant but meets the horizontal burn / flame requirements of FMVSS 302 at thicknesses of 3/16" (4.76 mm) (0.187") and higher. 5021 is also available in gray (5921). **5021 is listed as an approved source for MAHLE GN AR 06220 Par 6.1 [MAHLE GN AR 06346].**

### TECHNICAL DATA SHEET | BUNS (effective 26FEB21)

#### POLYMER: EPDM/CR/SBR

Physical Property	Test Method	Unit	Value
ASTM D 1056 Designation	-	-	2A1
Cell Structure	-	-	Closed
Color	-	-	Black (also available in Gray (5921))
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	0.188 and higher 4.76 and higher
Hardness, Durometer Shore 00	ASTM D 2240	-	40 - 60
Resilience	ASTM D 2632	%	30 - 45
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	7 min 1.2 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	45 min 310 min
Water Absorption	ASTM D 1056	%	10 max

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Monarch 5021 | DataSheet | 032021 | NA | EN-A

## 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 3,200 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.

For more information, please visit:

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