

DRIVEN BY PERFORMANCE

# Monarch<sup>®</sup> 5012

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

// ASTM D 1056 2A2

// Manufactured in buns (blocks)

// UL Listed: UL94 HF-1

// Added flame retardant

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

## MONARCH 5012 | Closed cell EPDM/CR/SBR blend foam in bun form

**Monarch 5012:** Armacell (Spencer, WV Plant) manufactures a general purpose, black, closed cell, 7 - 11 lb/ft<sup>3</sup> (112 - 176 kg/m<sup>3</sup>) density EPDM/CR/SBR blended rubber product 5012, that meets the physical property requirements of ASTM D 1056 2A2. 5012 incorporates flame retardants and is listed with UL to UL94 HF-1 (UL File # QMFZ2.E55798) at 1.6 mm (0.063") and higher. 5012 meets the horizontal burn/flame requirements of FMVSS 302, 4 inches per minute burn rate max., at 3.18 mm (0.125") and higher.

### TECHNICAL DATA SHEET | BUNS (effective 7/5/2022)

#### POLYMER: EPDM/CR/SBR

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A2	
Cell Structure	-	-	Closed	
Color	-	-	Black	
Compression Deflection 25%	ASTM D 1056	psi kPa	5 - 9 34.5 - 62	
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30	
Compression Set (Room temp)	ASTM D 1056	%	35 max	
Density	ASTM D 1056	lb/ft <sup>3</sup> kg/m <sup>3</sup>	7 - 11 112 - 176	
Elongation	ASTM D 412 (Die A)	%	125 min	
Flammability	FMVSS 302	in mm	0.125 and higher 3.18 and higher	
Hardness, Durometer Shore 00	ASTM D 2240	-	45 - 65	
Resilience	ASTM D 2632	%	25 - 35	
Service Temperature	Low	ASTM D 1056	°F °C	-40 -40
	High Continuous	-	°F °C	200 93.3
	High Intermittent	-	°F °C	250 121.1
Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	12 min 2.8 min	
Tensile Strength	ASTM D 412 (Die A)	psi kPa	65 min 448 min	
Water Absorption	ASTM D 1056	%	5 max	

UL Listed to: UL94 (Flame) HF-1 (UL file# QMFZ2.E55798) at 1.6 mm minimum thickness

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Monarch 5012 | Data Sheet | 012023 | 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 3,100 employees and 26 production plants in 18 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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