

DRIVEN BY PERFORMANCE

# Monarch<sup>®</sup> 5013

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

// ASTM D 1056 2A3

// Manufactured in buns (blocks)

// UL Listed: UL94 HF-1 & 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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 **armacell**<sup>®</sup>  
ArmaComp<sup>™</sup>

## MONARCH 5013 | Closed cell EPDM/CR/SBR blend foam in bun form

**Monarch 5013:** Armacell (Spencer, WV Plant) manufactures a black, closed cell, 7 - 11 lb/ft<sup>3</sup> (112 - 176 kg/m<sup>3</sup>) density, EPDM / Neoprene / SBR blended rubber product 5013, that meets the requirements of ASTM D 1056 2A3. 5013 meets the horizontal burn / flame requirements of FMVSS 302 at 2.5 mm (0.098") and higher. 5013 is listed with UL to UL94 HBF and HF-1 (UL94 HF-1 for thicknesses between 1.4 - 1.8 mm and UL94 HBF for thicknesses above 1.80 mm) (UL File #: QMFZ2.E55798). 5013 is also listed with UL to UL50E [periodic & continuous compression], UL48 & UL508 (UL File#: JMLU2.MH25062). This product is also available in gray (5913 [UL50E / UL48 / UL508 listed but not UL94 listed]). **5013 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	-	-	2A3	
Cell Structure	-	-	Closed	
Color	-	-	Black (also available in Gray (5913))*	
Compression Deflection 25%	ASTM D 1056	psi kPa	9 - 13 62 - 89.6	
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	0.098 and higher 2.5 and higher	
Hardness, Durometer Shore 00	ASTM D 2240	-	50 - 70	
Resilience	ASTM D 2632	%	15 - 25	
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	9 min 1.6 min	
Tensile Strength	ASTM D 412 (Die A)	psi kPa	55 min 379 min	
Water Absorption	ASTM D 1056	%	5 max	

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

UL Listed to: UL94 (Flame) HF1 (UL file# QMFZ2.E55798) at 1.4 - 1.8 mm only

\* Gray (5913 [UL50E / UL48 / UL508 listed but not UL94 listed])

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Monarch 5013 | 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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