

DRIVEN BY PERFORMANCE

Monarch[®] 2055

Closed cell Neoprene based foam in bun form

// ASTM D 1056 2A5

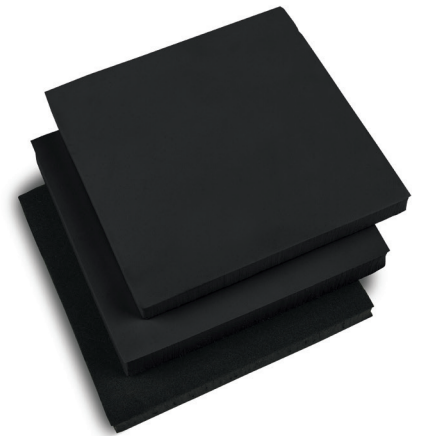
// Manufactured in buns (blocks)

// UL Listed: UL94 HBF

// Firm closed cell expanded rubber

// Listed on the approved source list for GMW 17408 Class I Type V [see Note 1]

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ArmaComp[™]

MONARCH 2055 | Closed cell Neoprene based foam in bun form

Monarch 2055: Armacell (Spencer, WV Plant) manufactures a black, closed cell, 11 - 15 lb/ft³ (176 - 240 kg/m³) density neoprene based rubber product 2055, that meets all the requirements of ASTM D 1056 2A5. 2055 contains flame retardants and meets the requirements of UL94 HBF at 2.1 mm and higher [UL listed] (UL File #: QMFZ2.E55798). 2055 meets the horizontal burn / flame requirements of FMVSS 302, 4 inches per minute burn rate max., at 2.5 mm (0.098") and higher. **2055 is listed as an approved source for GMW 17408 Class I Type V.**

TECHNICAL DATA SHEET | BUNS (effective 12/7/2022)

POLYMER: NEOPRENE BASED

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A5	
Cell Structure	-	-	Closed	
Color	-	-	Black	
Compression Deflection 25%	ASTM D 1056	psi kPa	17 - 25 117 - 172	
Compression Deflection 25%, after Heat Aging	ASTM D 1056	%	± 30	
Compression Deflection 50%, 60 second hold	ISO 3386-1	psi kPa	14 - 24.9 97.01 - 172.01	
Compression Set (Room temp)	ASTM D 1056	%	25 max	
Density	ASTM D 1056	lb/ft ³ kg/m ³	11 - 15 176 - 240	
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	-	65 -85	
Resiliance	ASTM D 2632	%	17 - 27	
Service Temperature	Low	ASTM D 1056	°F °C	-40 -40
	High Continuous	-	°F °C	150 65.5
Service Temperature	High Intermittent	-	°F °C	200 93.3
	Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	25 min 4.4 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	100 min 689 min	
Water Absorption	ASTM D 1056	%	5 max	

UL Listed to: UL94 (Flame) HBF (UL file# QMFZ2.E55798) at 2.1 mm minimum thickness

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

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Monarch 2055 | DataSheet | 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 3,200 employees and 27 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.

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