

DRIVEN BY PERFORMANCE

Monarch[®] 3091

Closed cell 100% EPDM foam in bun form

// ASTM D 1056 2A1

// Manufactured in buns (blocks)

// Color black, also available in gray (3991)

// Lightweight 4 lb/ft³ (64 kg/m³) density expanded rubber

// Listed on the approved source lists for GMW 17408 Class I Type IV, FCA (Chrysler)

MSAY 430 Type 2 & MAHLE GN AR 06220 Par 6.10

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 **armacell**[®]
ArmaComp[™]

MONARCH 3091 | Closed cell 100% EPDM foam in bun form

Monarch 3091: Armacell (Spencer, WV Plant) manufactures a black, closed cell, 3 - 5 lb/ft³ (48 - 80 kg/m³) density, 100% EPDM rubber product 3091, that meets all the requirements of ASTM D 1056 2A1. 3091 does not incorporate a flame retardant but meets the horizontal burn / flame requirements of FMVSS 302 at thicknesses of 3/16" (0.1875") (4.76 mm) and higher. 3091 has excellent resistance to ozone and elevated temperatures. 3091 is also available in gray (3991). **3091 is listed as an approved source for GMW 17408 Class I Type IV, FCA (Chrysler) MSAY 430 Type 2 and MAHLE GN AR 06220 Par 6.10 previously Delphi SD2-207 Par 6.10.**

TECHNICAL DATA SHEET | BUNS (effective 26FEB21)

POLYMER: 100% EPDM

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A1	
Cell Structure	-	-	Closed	
Color	-	-	Black (also available in gray (3991))	
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 ³ kg/m ³	3 - 5 48 - 80	
Elongation	ASTM D 412 (Die A)	%	150 min	
Flammability	FMVSS 302	in mm	0.188 and higher 4.76 and higher	
Hardness, Durometer Shore 00	ASTM D 2240	-	30 - 50	
Resilience	ASTM D 2632	%	50 - 70	
Service Temperature	Low	ASTM D 1056	°F °C	-70 -56.6
	High Continuous	-	°F °C	220 104.4
Service Temperature	High Intermittent	-	°F °C	250 121
	Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	6 min 1.05 min
Tensile Strength	ASTM D 412 (Die A)	psi kPa	40 min 276 min	
Water Absorption	ASTM D 1056	%	10 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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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.

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