## DRIVEN BY PERFORMANCE

# Monarch® 3991

Closed cell 100% EPDM foam in bun form

// ASTM D 1056 2A1

// Manufactured in buns (blocks)

// Color gray, also available in black (3091)

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

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#### MONARCH 3991 | Closed cell 100% EPDM foam in bun form

Monarch 3991: Armacell (Spencer, WV Plant) manufactures a gray, closed cell, 3 - 5 lb/ft³ (48 - 80 kg/m³) density, 100% EPDM rubber product 3991, that meets the requirements of ASTM D 1056 2A1. 3991 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. 3991 is also available in black (3091).

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

POLYMER: 100% EPDM	
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Physical Property		Test Method	Unit	Value
ASTM D 1056 Designation				2A1
Cell Structure		_		Closed
Color				Gray (also available in Black (3091))
Compression Deflection 25%		ASTM D 1056	psi kPa	2 - 5 13.8 - 34.5
Compression Deflection 25%, after Heat Aging		ASTM D 1056	%	<u>+</u> 30
Compression Set (Room temp)		ASTM D 1056	%	45 max
Density		ASTM D 1056	lb/ft³ kg/m³	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
	Low	ASTM D 1056	°F °C	-70 -56.6
Service Temperature	High Continuous	_	°F °C	220 104.4
	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.

