

BUILT TO LAST

# Monarch<sup>®</sup> 2045

Closed cell Neoprene based foam in bun form

// ASTM D 1056 2A5/2C5

// Manufactured in buns (blocks)

// Listed as an approved source on Penn DOT Bulletin 15 Section 1085.2 (m)

[www.armacell.us](http://www.armacell.us)



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

## MONARCH 2045 | Closed cell Neoprene based foam in bun form

**Monarch 2045:** Armacell (Spencer, WV Plant) manufactures a black, closed cell, 15 - 23 lb/ft<sup>3</sup> (240 - 368 kg/m<sup>3</sup>) density, Neoprene based rubber product 2045, that meets the requirements of ASTM D 1056 2A5 / 2C5. 2045 does not incorporate a flame retardant but meets the horizontal burn / flame requirements of FMVSS 302 at 3/16" (0.1875") (4.76 mm) and higher. **2045 is listed as an approved source on Penn DOT Bulletin 15 Section 1085.2 (m).**

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

#### POLYMER: NEOPRENE BASED

Physical Property	Test Method	Unit	Value
ASTM D 1056 Designation	-	-	2A5/2C5
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 Set (Room temp)	ASTM D 1056	%	25 max
Density	ASTM D 1056	lb/ft <sup>3</sup> kg/m <sup>3</sup>	15 - 23 240 - 368
Elongation	ASTM D 412 (Die A)	%	175 min
Flammability	FMVSS 302	in mm	0.188 and higher 4.76 and higher
Fluid Immersion	ASTM D 1056	%	150 max
Hardness, Durometer Shore 00	ASTM D 2240	-	65 - 85
Resilience	ASTM D 2632	%	25 - 35
Service Temperature	Low	ASTM D 1056	°F °C
	High Continuous	-	°F °C
	High Intermittent	-	°F °C
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	150 min 1034 min
Water Absorption	ASTM D 1056	%	5 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.

At Armacell, your trust means everything to us, so we want to let you know your rights and make it easier for you to understand what information we collect and why we collect it. If you would like to find out about our processing of your data, please visit our [Data Protection Policy](#).

© Armacell, 2021. All rights reserved. Trademarks followed by © or TM are trademarks of the Armacell Group.  
Monarch 2045 | 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 3,135 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:

[www.armacell.us](http://www.armacell.us)

[info.cf.us@armacell.com](mailto:info.cf.us@armacell.com)

800-973-0490

