

DESIGNED FOR DURABILITY

Monarch[®] 3843

DIE EJECTION Closed cell 100% EPDM foam in bun form

// ASTM D 1056 2A3/2A4

// Manufactured in buns (blocks)

// Higher density expanded rubber

// Color red, available in black (3043), blue (3543), brick red (3743) and gray (3943)

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 **armacell**[®]
ArmaComp[™]

MONARCH 3843 | DIE EJECTION Closed cell 100% EPDM foam in bun form

Monarch 3843: Armacell (Spencer, WV Plant) manufactures a red, closed cell, 16 - 22 lb/ft³ (256 - 352 kg/m³) density 100% EPDM rubber product 3843, that meets the requirements of ASTM D 1056 2A3/2A4. 3843 has excellent resistance to ozone and elevated temperatures and has excellent compression set properties. 3843 does not incorporate a flame retardant but meets the requirements of FMVSS 302 at 3.17 mm (0.125") (1/8") and higher. This product is also available in gray (3943), blue (3543), brick red (3743) and black (3043). 3843 has high resilience / rebound characteristics.

TECHNICAL DATA SHEET | BUNS (effective 26FEB21)

POLYMER: 100% EPDM

Physical Property	Test Method	Unit	Value	
ASTM D 1056 Designation	-	-	2A3/2A4	
Cell Structure	-	-	Closed	
Color	-	-	Red (also available in gray (3943), blue (3543), brick red (3743) and black (3043))	
Compression Deflection 25%	ASTM D 1056	psi kPa	9 - 15 62 - 103	
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 ³ kg/m ³	16 - 22 256 - 352	
Elongation	ASTM D 412 (Die A)	%	175 min	
Flammability	FMVSS 302	in mm	0.125 and higher 3.18 and higher	
Hardness, Durometer Shore 00	ASTM D 2240	-	60 - 80	
Resilience	ASTM D 2632	%	50 - 60	
Service Temperature	Low	ASTM D 1056	°F °C	-70 -56.6
	High Continuous	-	°F °C	220 104.4
	High Intermittent	-	°F °C	250 121
Tear Strength	ASTM D 624 (Die C)	lb/in kN/m	20 min 3.5 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.

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Monarch 3843 | 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.

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