

DESIGNED FOR DURABILITY

Monarch[®] 3944

DIE EJECTION Closed cell 100% EPDM foam in bun form

// ASTM D 1056 2A3/2A4

// Manufactured in buns (blocks)

// Higher density expanded rubber

// Color gray, available in black (3044) and green (3344)

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ArmaComp[®]

MONARCH 3944 | DIE EJECTION Closed cell 100% EPDM foam in bun form

Monarch 3944: Armacell (Spencer, WV Plant) manufactures a gray, closed cell, 15 - 23 lb/ft³ (240 - 368 kg/m³) density 100% EPDM rubber product 3944, that meets the requirements of ASTM D 1056 2A3/2A4. 3944 has excellent resistance to ozone and elevated temperatures and has excellent compression set properties. 3944 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 black (3044) and green (3344). 3944 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	-	-	Gray (also available in black (3044) and green (3344))	
Compression Deflection 25%	ASTM D 1056	psi kPa	10 - 17 69 - 117	
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	15 - 23 240 - 368	
Elongation	ASTM D 412 (Die A)	%	125 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	%	55 - 65	
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	

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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 3,135 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.

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