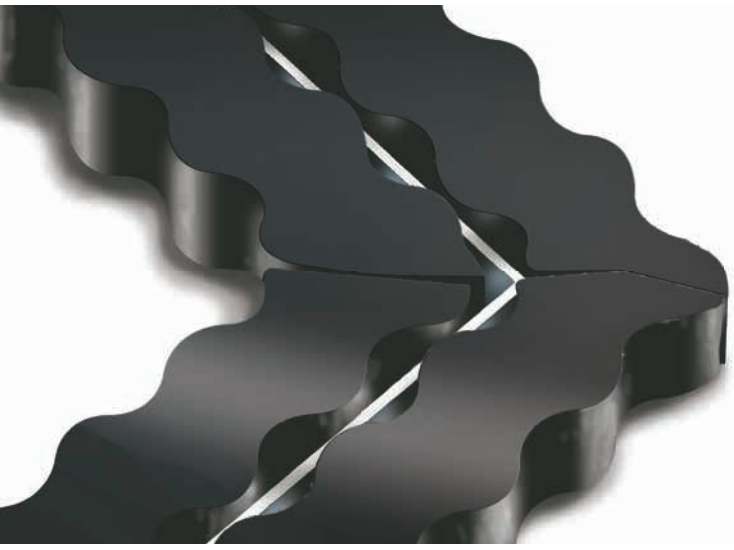
Monarch®

3043

CLOSED CELL, HIGH DENSITY 100% EPDM FOAM IN BUN FORM



Armacell LLC (Spencer, WV Plant) manufactures a black, closed cell, 19 ± 3 lb/ft^3 (304 ± 48 kg/m^3) density 100% EPDM rubber product 3043, that meets all the requirements of ASTM D 1056-14 2A3/2A4.

- Has excellent resistance to ozone and elevated temperatures and has excellent compression set properties.
- Does not incorporate a flame retardant but meets the requirements of FMVSS-302 at 3.18 mm (1/8") (0.125") and higher.
- Manufactured with non-staining oils and anti-oxidants.

- Firm, High Density 100% EPDM closed cell rubber
- ASTM D 1056-14 2A3/2A4
- Fine cell – manufactured in blocks (buns)
- Density: 19 ± 3 lb/ft^3 (304 ± 48 kg/m^3)

armacell®

Engineered For Success.

Bun Size Information:

Product	Bun Size Options (in)			Bun Size Options (mm)			Color
	W	L	T	W	L	T	
3043	42	52	1.5	1067	1321	38	Black

Automotive and Industrial Specifications:

Source	Specification	Armacell (Monarch®) 3043	Comments
ASTM	D 1056-14	2A3/2A4	Additional (optional) suffixes can be added
ASTM	D 6576-13	Type II, Grades B&C, condition medium/medium firm	Formerly MIL R 6130-C
Chrysler	MSAY 430	Type 5	
Chrysler	MS JP9-4	Pass at thicknesses of 0.125" (1/8") (3.18 mm) and higher	Flame Resistance (horizontal burn rate). See note 1.
Chrysler	MS Z-75	2A3/2A4	Additional (optional) suffixes can be added
Federal	FMVSS-302	Pass at thicknesses of 0.125" (1/8") (3.18 mm) and higher	Flame Resistance (horizontal burn rate). See note 1.
Ford	WSK M2D 419 A	Type 4/5	See note 2.
GM	GM 6086-M	Type IIIA	CD tested at 50% deflection. See note 3.
GM	GMW 15473	Class I Type V	CD tested at 50% deflection. See note 3.
ISO	6916	2A3/2A4	No exceptions
Military	ASTM D 6576-13	Type II, Grades B&C, condition medium/medium firm	Formerly MIL R 6130-C
SAE	J18 APR2002	2A3/2A4	Additional (optional) suffixes can be added
SAE	J369	Pass at thicknesses of 0.125" (1/8") (3.18 mm) and higher	Flame Resistance (horizontal burn rate). See note 1.
Toyota	TSM 0500G	Pass at thicknesses of 0.125" (1/8") (3.18 mm) and higher	Flame Resistance (horizontal burn rate). See note 1.
Toyota	TSM 1501G	2A3/2A4	No exceptions

Note 1: A number of horizontal burn tests can also be listed (GM 6090, BMW, Volvo etc.). Request additional information.

Data Sheet:

Physical Properties	Unit	Test Method	Typical Result
Density	lb/ft^3	ASTM D 1056	16.0 - 22.0
	kg/m^3	ASTM D 1056	256 - 352
Hardness, Durometer Shore 00		ASTM D 2240	60 - 80
Tensile Strength	psi	ASTM D 412 (Die A)	175
	kPa	ASTM D 412 (Die A)	1207
Elongation	%	ASTM D 412 (Die A)	175
Tear Strength	lb/in	ASTM D 624 (Die C)	20
	kN/m	ASTM D 624 (Die C)	3.5
Compression Deflection (25%)	psi	ASTM D 1056	9.0 - 15.0
	kPa	ASTM D 1056	62.1 - 103.4
Compression Set	%	ASTM D 1056	≤25%
Resilience	%	ASTM D 2632	55
Service Temperature (1)			
Low	°F (°C)	ASTM D 1056	-70 (-56.7)
High Continuous	°F (°C)		220 (104.4)
High Intermittent	°F (°C)		250 (121.1)
Water Absorption			
Maximum weight change	%	ASTM D 1056	5
Fluid Immersion (7 days @ 23°C [73.4 °F]) ASTM Ref. Fuel B, Weight Change	%	ASTM D 1056	Not applicable
Accelerated Aging (7 days at 70 °C [158 °F])			
Flexibility (180° bend without cracking)		ASTM D 1056	Pass
Appearance Change			None
Change in Compression Deflection	%		±30
Combustion Characteristics (2)			
FMVSS-302	Burn Rate		Pass at thickness of 0.125" (1/8") (3.18 mm) and higher
UL94			Not applicable
UL 50/UL50E (Gaskets & Seals)			Not applicable

(1) This recommendation is based on polymer type only. For specific application requirements please contact technical service department.
(2) Flammability – This data refers to typical performance in the specific test indicated. This data should not be construed to imply the behavior of material in other fire conditions.

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