



DRIVEN BY PERFORMANCE

Monarch 5032

Engineered as a gasket and seal solution to provide protection from dust, debris, moisture, and weathering.

- // Low density
- // Soft to medium firmness
- // Good flame performance
- // Suitable for outdoor applications
- // Meets OEM specifications

www.armacell.us



 **armacell**[®]
ArmaComp[™]

TECHNICAL DATA - MONARCH 5032

Product color range	Black
Additives	Flame retardant
ASTM D 1056 Designation	2A2
Cell structure	Closed
Form	Bun
Polymer	EPDM/CR/SBR
Markets	Automotive, Industrial
Applications	Gaskets and seals, UL50 E Electrical enclosures

Property	Value / Assessment	Comments
Approvals and specifications		
General Motors	GMW 17408 Class I Type IV	Interior & Exterior Applications Exception to compression set @ 70°C (158°F) & fogging
MAHLE	GN AR 06220 Par 6.2 [MAHLE GN AR 06346]	Previously Delphi SD2 207 Par 6.2

Property	Value / Assessment						Standard / Test method
Temperature range							
Service temperature	Min. °C	Min. °F	Max. °C (intermittent)	Max. °F (intermittent)	Max. °C	Max. °F	ASTM D1056
	-40	-40	121	250	93.3	200	
Flammability							
Flame FMVSS 302 (burn rate)	3.94 in/minute (100 mm/minute) max Passes at 0.098 in (2.5 mm) and higher						FMVSS 302
UL standards							
UL94 HF-1	Passes at 1.5 mm (0.059 in) minimum thickness UL File # QMFZ2.E55798 & # QMFZ8.E55798						UL 94
Resistance to water							
Water absorption by vacuum	5% max						ASTM D1056
Physical attributes							
Density	4 - 8 lb/ft ³ 64 - 128 kg/m ³						ASTM D1056
Mechanical properties							
Compression set	45% max						ASTM D1056
Tensile strength	45 psi min 310 kPa min						ASTM D412 (Die A)
Elongation	100% min						ASTM D412 (Die A)
Tear strength	7.1 lb/in min 1.23 kN/m min						ASTM D624 (Die C)
Hardness durometer shore 00	40 - 60						ASTM D2240
Resilience	30 - 40%						ASTM D2632

Property	Value / Assessment	Standard / Test method
Compression deflection		
Compression deflection 25%	5 - 9 psi 34.5 - 62.1 kPa	ASTM D1056
Compression deflection 50% - 60 sec hold	6.96 - 14.07 psi 48.01 - 97 kPa	ISO 3386-1
Change in compression deflection	±30 %	ASTM D1056
UL Listed		
UL gaskets and seals	UL File # JMLU2.MH25062 Suitable for UL50E continuous & periodic compression applications for enclosure types: 2, 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K and 13 including oil immersion. Suitable as gasket material for use in UL 48 - Electric Signs. Suitable as gasket material for use in UL 508 - Industrial Control Equipment UL gaskets & seals max service temperature: 60°C (140°F)	UL 48, UL 508, UL 50E

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.

Trademarks followed by © or TM are trademarks of the Armacell Group. © Armacell, 2023. All rights reserved.

ArmaComp | Monarch 5032 | TDS | 112023 | en-US

ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 more than 3,300 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

For more information, please visit:
www.armacell.com

