

DRIVEN BY PERFORMANCE

Monarch 5013

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

- // Medium density
- // Medium firmness
- // Good flame performance
- // Good resistance to ozone and weathering
- // Meets OEM specifications













TECHNICAL DATA - MONARCH 5013

Brief description							at meets ASTM D 1056 2A3 omotive specifications.	
Product color range	Black							
ASTM D 1056 Designation	2A3							
Cell structure	Closed							
Form	Bun							
Polymer	EPDM/CR/SBR							
Markets	Automotive, E							
Applications	Gaskets and s	eals						
Source	Specification			Comme	nts			
Approvals and specifications								
General Motors					& Exterior Applicant to compression	ations set @ 70°C (158°F)	& fogging	
Property	Value / Asse	ssment					Standard / Test method	
Temperature range								
Service temperature	Min. °C	Min. °F	Max. °C (intermittent)	Max. °F (intermittent)	Max. °C	Max. °F	ASTM D1056	
	-55	-67	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 HBF	Passes at 1.8 mm (0.071 in) minimum thickness UL File # QORU2.E535094 & # QORU8.E535094						UL 94	
UL94 HF-1	Passes at 1.4 mm (0.055 in) - 1.8 mm (0.071 in) thickness only UL File # QORU2.E535094 & # QORU8.E535094						UL 94	
Resistance to water								
Water absorption by vacuum	5% max						ASTM D1056	
Physical attributes								
Density	7 - 11 lb/ft³ 112 - 176 kg/m³						ASTM D1056	
Mechanical properties			<u> </u>			· · · · · · · · · · · · · · · · · · ·		
Compression set	35% max						ASTM D1056	
Tensile strength	75 psi min 517 kPa min						ASTM D412 (Die A)	
Elongation	125% min						ASTM D412 (Die A)	
Tear strength	9 lb/in min 1.6 kN/m min						ASTM D624 (Die C)	
Hardness durometer shore 00	50 - 70						ASTM D2240	

Property	Value / Assessment	ASTM D2632	
Resilience	25 - 35%		
Compression deflection			
Compression deflection 25%	9 - 13 psi 62.1 - 89.6 kPa	ASTM D1056	
Compression deflection 50% - 60 sec hold	14.07 - 24.95 psi 97.01 - 172 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 not 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, 2024, All rights reserved

ArmaComp | Monarch 5013 | TDS | 092024 | 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 25 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.

