



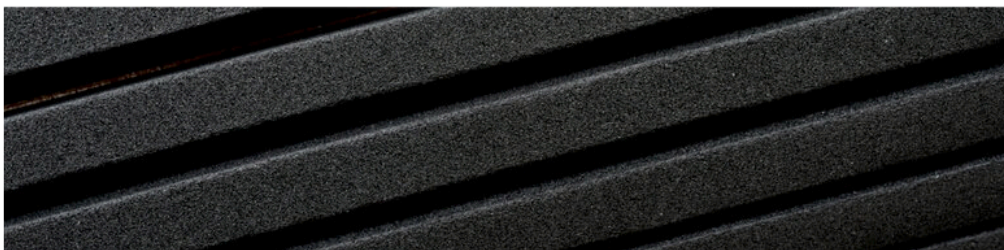
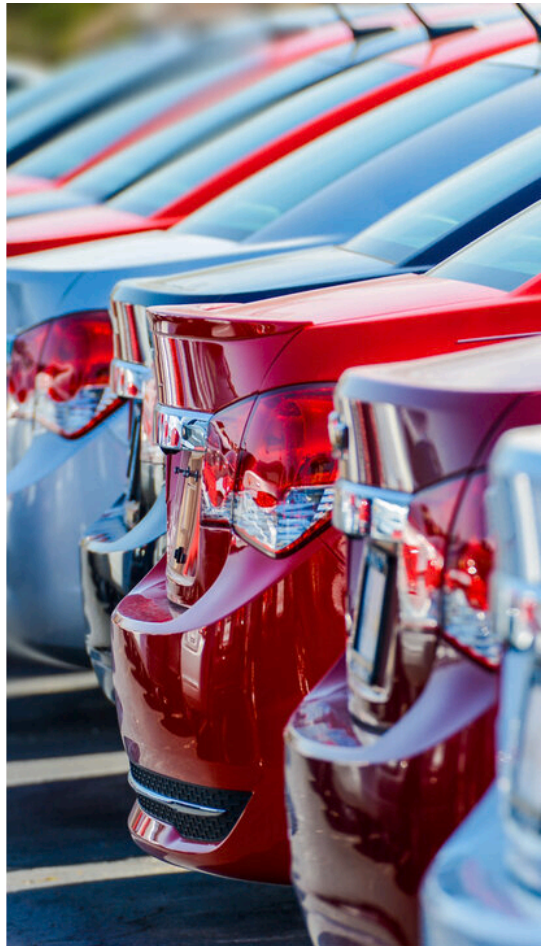
DRIVEN BY PERFORMANCE

Monarch 2002

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

- // Medium density
- // Soft to medium firmness
- // Good oil and fuel resistance

www.armacell.com



 **armacell**[®]
ArmaComp[®]

TECHNICAL DATA - MONARCH 2002

Brief description	2002 is a neoprene based, closed cell foam product produced in bun form. It is a soft/medium firmness, medium density foam that meets ASTM D 1056 2C2 requirements. This product has good oil/fuel resistance and is UL listed for gasket and seals.
Product color range	Black
ASTM D 1056 Designation	2A2/2C2
Cell structure	Closed
Form	Bun
Polymer	Neoprene Based
Markets	Electrical
Applications	Gaskets and seals

Property	Value / Assessment	Standard / Test method
Operating temperature		
Operating temperature	Min: -40°C (-40°F) Max [intermittent]: 93.3°C [200°F] Max: 65.6°C [150°F]	
Flammability		
Flame FMVSS 302 (burn rate)	3.94 in/minute (100 mm/minute) max Passes at 0.125 in (3.18 mm) and higher	FMVSS 302
Resistance to water		
Water absorption by vacuum	5% max	ASTM D1056
Physical attributes		
Density	7 - 11 lb/ft ³ 112 - 176 kg/m ³	ASTM D1056
Mechanical properties		
Compression set	30% max	ASTM D1056
Tensile strength	65 psi min 448 kPa min	ASTM D412 (Die A)
Elongation	125% min	ASTM D412 (Die A)
Tear strength	12 lb/in min 2.1 kN/m min	ASTM D624 (Die C)
Hardness durometer shore 00	50 - 70	ASTM D2240
Resilience	10 - 20%	ASTM D2632
Fluid immersion	250% max	ASTM D1056
Compression deflection		
Compression deflection 25%	5 - 9 psi 34.5 - 62.1 kPa	ASTM D1056
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.

© Armacell, 2025. All rights reserved. Trademarks followed by © or TM are trademarks of the Armacell Group.

ArmaComp | Monarch 2002 | TDS | 122025 | 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 insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,100 employees and 26 production plants in 20 countries, Armacell 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

