armacell
engineered foams

Monarch®

SUBMITTAL SHEET (effective 10/30/11)

Polymer Base: Neoprene (CR Based) — F-02003 (Black)

Physical Properties	Unit	Test Method	Typical Results
Density	g/cm^3	ASTM D 1056	0.256 ± 0.064
	lb/ft^3	ASTM D 1056	16 ± 4
Hardness, Durometer Shore 00		ASTM D 2240	60 ± 10
Compression Deflection (25%)	kPa	ASTM D 1056	77 ± 14
	psi	ASTM D 1056	11± 2
Compression Set	%	ASTM D 1056	≤ 25%
Tensile Strength	kPa	ASTM D 412 (Die A)	1030
	psi	ASTM D 412 (Die A)	150
Tear Strength	kN/m	ASTM D 624 (Die C)	3.5
	lb/in	ASTM D 624 (Die C)	20
Elongation	%	ASTM D 412 (Die A)	100%
Resilience	%	ASTM D 2632	10%
Service Temperature			
Low	°F	ASTM D 746	-40
High Continuous	°F	ASTM D 746	150
High Intermittent	°F	ASTM D 746	200
Water Absorption			
Maximum Weight Change	%	ASTM D 1056	< 5%
Fluid Immersion (7 days at 23°C [73.4°F])			
ASTM Ref. Fuel B, Weight Change (%)	%	ASTM D 1056	< 150%
Accelerated Aging (7 days at 70°C [158°F])			
Flexibility (180° bend without cracking)		ASTM D 1056	Pass
Appearance change		ASTM D 1056	None
Change in Compression Deflection	%	ASTM D 1056	± 30%
Combustion Characteristics		FMVSS-302	Pass
		UL 94HF-1	Pass (Not UL Listed)

ASTM D 1056-07 designation: 2A3 / **2C3**
SAE J 18 APR2002 designation: 2A3 / **2C3**
ASTM D 6576-07: **II-A/B Medium**

BSI REGISTERED
ISO 9001:2000
FM 90581
ISO/TS 16949:2002
FM 80537

For updates to this document please refer to our website.

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