MC385 **Genuine Viton® 'A' 70 Shore Blue 'USP VI'** ASTM D 2000 M2HK 619 B37

Material Datasheet • Issue 1 • Feb 2017

Material

Genuine Viton® 'A' 70 Shore Blue **'USP VI'**
ASTM D 2000 M2HK 619 B37

Description

- Low compression set Viton 'A' O Ring grade.
- Copolymer with 66% fluorine content.
- Cure system is Bisphenol.

Application

This material has excellent resistance to oils, fuels, lubricants, most mineral acids, aliphatic and aromatic hydrocarbons. Approved to USP Class VI and is FDA Compliant to CFR 21 177-2600.

Temperature

- Low temperature service limit 5°F (-15°C).
- Upper temperature continuous service limit +400°F (+204°C).

Products

- Mouldings (Custom/O Rings)

Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	2.21
Durometer shore A (slab)	ASTM D2240	62
Elongation % (Dumbbell)	ASTM D412	346
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1610 (11.1)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	8.0
Low temperature TR-10 F (°C) *	ASTM D1329	-0.4 (-18)

* nominal value based on a typical 75 shore vulcanisation

Heat Ageing 70h @ 482°F (250°C) ASTM D573	
Durometer change points shore A	+3
Elongation change %	-68
Tensile strength change Psi (MPa)	+145 (+1.0)
Weight loss %	1.5

Fluid Immersion ASTM 3 70h @ 302°F (150°C) ASTM D 471	
Volume change %	+1.1
Durometer change points shore A	-1
Elongation change %	-3
Tensile strength change Psi (MPa)	-87 (-0.6)

Information

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experimentations. It is not intended to substitute any testing you may need to conduct to determine suitability of our products for your end use. Northern Engineering reserves the right to revise this information as new knowledge and experience becomes available. Northern Engineering makes no warranties and assumes no liability in connection with any use of the above information.
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