Material Data Sheet

MC385 Genuine Viton™ 'A' 70 Shore FDA/USP Blue

Feb-2019 Revision: 2

MATERIAL

Genuine Viton™ 'A' 70 Shore FDA/USP Class VI Blue
ASTM D 2000 M2HK 619 B37

DESCRIPTION

Low compression set Viton™ O ring grade
Copolymer with 66% fluorine content
Cure system is Bisphenol
FDA compliant to CFR 21 177-2600
Approved to USP Class VI

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

Moulding (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 typical 75 shore vulcanizate

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 %	1.15

FLUID IMMERSION ASTM 3 70h @ 302°F (150°C) ASTM D471	
Volume change %	+1.1
Durometer change points shore A	-1
Elongation change %	-3
Tensile strength change Psi (Mpa)	+87 (-0.6)

MADE WITH Viton™ Fluoroelastomer A brand of The Chemours Company

An INTEGRATED POLYMER SOLUTIONS Company

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