

MATERIAL

Viton™ 75 Shore FDA/3-A White & USP Class VI <87 & 88>
ASTM D 2000 M2 HK 710 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
3-A 18-03 compliant to Class 1
This compound has been tested according to (EU) 10/2011

APPLICATION

This material has excellent resistance to oils, fuels, lubricants, most mineral acids, aliphatic and aromatic hydrocarbons. Approved to USP Class VI and is USP biological reactivity tested in vitro <87> and vivo <88>. Extraction tested at 121°C and is FDA compliant to CFR 21 177-2600

TEMPERATURE

Low temperature service limit -4°F (-20°C)
Upper temperature continuous service limit +400°F (+204°C)

PRODUCTS

Encapsulated Seals
Extrusions (cords/profiles/tubes)
Hot Vulcanised O rings
Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	2.44
Durometer shore A (slab)	ASTM D2240	77
Elongation % (Dumbbell)	ASTM D412	335
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1756 (12.1)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	6.2
Low temperature TR-10°F (°C)*	ASTM D1329	1.4 (-17)

*Nominal value based on a typical 75 shore vulcanizate

HEAT AGEING 70h @ 482°F (250°C) ASTM D573

Durometer change points shore A	+3
Elongation change %	-43
Tensile strength change Psi (Mpa)	+290 (+2)
Weight loss grams	0.12

FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) ASTM D471

Volume change %	+3.3
Durometer change points shore A	-3
Elongation change %	-17
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.