

MATERIAL	Viton™ 80 Shore FDA Green ASTM D 2000 M2HK 810 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
APPLICATION	This material has excellent resistance to oils, fuels, lubricants, most mineral acids aliphatic and aromatic hydrocarbons.
TEMPERATURE	Low temperature service limit -4°F (-20°C) Upper temperature continuous service limit +400°F (+204°C)
PRODUCTS	Extrusions (cords/profiles/tubes) Hot Vulcanised O rings & Profiles Moulding (custom/O rings)

PHYSICAL PROPERTIES



ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	2.32
Durometer shore A (slab)	ASTM D2240	80
Elongation % (Dumbbell)	ASTM D412	232
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1479 (10.19)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	5.46
Low temperature TR-10°F (°C)*	ASTM D1329	1.4 (-17)

*Nominal value based on typical 75 shore vulcanizate

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

Durometer change points shore A	+1.8
Elongation change %	-41
Tensile strength change Psi (Mpa)	+696 (+4.8)
Weight loss %	-0.27

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

Volume change %	+4.07
Durometer change points shore A	-1
Elongation change %	-22
Tensile strength change Psi (Mpa)	+118 (-0.81)

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.