

MATERIAL

Viton™ 60 Shore FDA Black
ASTM D 2000 M2 HK 612 A1-10 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 & European regulations EC1935/2004
Meets EN10/2011

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

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

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	DIN 53479	1.99
Durometer shore A (slab)	DIN 53505	63.5
Elongation % (Dumbbell)	DIN 53504	409
Tensile strength Psi (Mpa) (Dumbbell)	DIN 53504	1746 (12)
Compression set % 22h @ 212°F (100°C) (slab)	DIN 53517	6.8
Low temperature TR-10 °F (°C)	DIN 53545	1.4 (-17)
*Nominal value based on a typical 75 shore vulcanizate		
HEAT AGEING 70h @ 482°F (250°C) DIN 53508		
Durometer change points shore A		+3
Elongation change %		-21
Tensile strength change Psi (Mpa)		-290 (+2)
Weight loss %		0.32
FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) DIN 53521		
Volume change %		+4.3
Durometer change points shore A		+5.8
Elongation change %		+1.9
Tensile strength change Psi (Mpa)		-110 (-0.76)

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.