



Material Data Sheet

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Material	Genuine Viton® 'A' 75 Shore ASTM D 2000 M2HK 710 B37 B38 C12	MC152
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.	
Temperature	Low temperature service limit -4F (-20 C). Upper temperature continuous service limit 400F (+204 C).	
Products	Extrusions (cords/profiles/tubes) Mouldings (Custom/O Rings) VulOrings & Encapsulated O Rings	

Physical Properties

Original

Specific Gravity	ASTM D1817	2.32
Durometer shore A (slab)	ASTM D2240	79
Elongation % (Dumbbell)	ASTM D412	233
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1672 (11.52)
Modulus @ 100% %	ASTM D945	7.2
Compression set % 22h @ 347F (175C) (slab)	ASTM D395B	4.6
22h @ 400F (200C)		7.0
Low temperature TR-10 °F (C) *	ASTM D1329	1.4 (-17)
* nominal value based on a typical 75 shore vulcanizate		

Heat Ageing 70h @ 482F (250C) ASTM D573

Durometer change points shore A	+4
Elongation change %	-34
Tensile strength change Psi (Mpa)	+537 (+3.7)
Weight loss grams	0.02

Fluid Immersion Oil No3 70h @ 302F (150C) ASTM D 471

Volume change %	+4.56
Durometer change points shore A	0.5
Elongation change %	-6.5
Tensile strength change Psi (Mpa)	+68 (+0.47)

Fluid Immersion Fuel C 70h @ 302F (23C) ASTM D471

Volume change %	+3.0
Durometer change points shore A	-1
Elongation change %	-3
Tensile strength change Psi (Mpa)	-32

Ozone Resistance 70h @ 40C (50pphm)	ASTM D1171	Pass
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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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