Material Data Sheet

MC229 Viton™ 75 Shore FDA/3-A White

Apr-2022 Revision: 5

MATERIAL

Viton™ 75 Shore FDA/3-A White
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 & European regulations EC1935/2004
3-A 18-03 compliant to Class 1
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
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)

An INTEGRATED POLYMER SOLUTIONS Company

Northern Engineering (Sheffield) Limited, Haigh Moor Drive, Brooklands Park, Sheffield, UK, S25 2JY
Tel: +44 (0) 1909 560 203
Fax: +44 (0) 1909 560 184
Email: sales@nes-ips.com
Web: www.nes-ips.com