

MC152 Viton™ 75 Shore FDA Black

MATERIAL	Viton™ 75 Shore FDA and 3 A Class 1 Black ASTM D 2000 M2HK 710 B38 C12 Z1 75° +/-5 ShA	
DESCRIPTION	Low compression set Viton™ O ring grade Copolymer with 66% fluorine content Cure system is Bisphenol FDA compliant to CFR 21 177-2600 E & F & European regulations EC1935/2004	
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 Hot Vulcanised O rings & Profiles	Extrusions (cords/profiles/tubes) Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
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 @ 347°F (175°C) (slab)	ASTM D395B	4.6
22h @ 400°F (200°C)		7.0
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	+4
Elongation change %	-34
Tensile strength change Psi (Mpa)	+537 (+3.7)
Weight loss %	-0.02

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

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 @ 73°F (23°C) ASTM D471

Volume change %	+3.0
Durometer change points shore A	-1
Elongation change %	-3
Tensile strength change Psi (MPa)	-32 (-0.22)

OZONE RESISTANCE 70h @ 104°F (40°C) (50pphm) ASTM D1171

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TEAR STRENGTH ACCORDING TO ISO 34-2

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