## NES Material Data Sheet MC229 Viton™ 75 Shore FDA/3-A M ite

Apr-2022

**Revision:** 5

MATERIAL	Viton™ 75 Shore FDA/3-A White ASTM D 2000 M2 HK 710 B37
DESCRIPTION	Low compression set Viton <sup>™</sup> 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
<b>APPLICATION</b> This material has excellent resistance to oils, fuels, lubricants, most mine 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**

EL	ENTIES				
	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)		

Information

Fluoroelastomer Bind or The Chemours Con

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