

MATERIAL	FKM 'A' 70 Shore Metal/X-Ray Detectable FDA Blue ASTM D 2000 M2HK 712 B37
DESCRIPTION	Low compression set FKM 'A' O ring grade Copolymer with 66% fluorine content FDA compliant to CFR 21 177-2600 & European regulations EC1935/2004 3-A 18-03 compliant to Class 1 Cure system is Bisphenol
APPLICATION	This material has excellent resistance to oils, fuels, lubricants, most mineral acids, aliphatic and aromatic hydrocarbons. This compound can be detected by metal detectors and X-Ray detectors.
TEMPERATURE	Low temperature service limit +5°F (-15°C) Upper temperature continuous service limit +400°F (+204°C)
PRODUCTS	Extrusions (cords/profiles/tubes) Hot Vulcanised O rings Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	2.25
Durometer shore A (slab)	ASTM D2240	66
Elongation % (Dumbbell)	ASTM D412	237
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1740 (12.0)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	7.7
Low temperature TR-10 °F (°C)*	ASTM D1329	10.4 (-12)

*Nominal value based on a typical 70 shore vulcanizate

HEAT AGEING 70h @ 482°F (250°C) ASTM D573

Durometer change points shore A	+5
Elongation change %	-55
Tensile strength change Psi (Mpa)	+29 (+0.2)
Weight loss %	2.5

FLUID IMMERSION ASTM 3 70h @ 302°F (150°C) ASTM D471

Volume change %	+2.5
Durometer change points shore A	0
Elongation change %	+23
Tensile strength change Psi (Mpa)	-189 (-1.3)

Sample tests were carried out on a Mettler Toledo Advanckek 300 machine, tests were carried out on a standard head 350mm wide x 175mm high, frequency at both 100 Khz and 300Khz, samples down to 2mm were detected.

Information

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