

MATERIAL Silicone 70 Shore Metal/X-Ray Detectable FDA & 3-A Blue
ASTM D 2000 M2GE 704 A19B37E036

DESCRIPTION FDA compliant to CFR 21 177-2600 & European regulations EC1935/2004
3-A 18-03 compliant to Class 1

APPLICATION This material has excellent thermal resistance to both high and low temperatures and is good with oxygen and ozone attack. This compound can be detected by metal detectors and X-Ray detectors.

TEMPERATURE Low temperature service limit -76°F (-60°C)
Upper temperature continuous service limit +428°F (+220°C)

PRODUCTS Extrusions (cords/profiles/tubes)
Hot Vulcanised O rings
Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.33
Durometer shore A (slab)	ASTM D2240	69
Elongation % (Dumbbell)	ASTM D412	167
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	681 (4.7)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	14.8

HEAT AGEING 70h @ 437°F (225°C) ASTM D573

Durometer change points shore A	-2
Elongation change %	-18
Tensile strength change Psi (Mpa)	-14 (-0.3)
Weight loss %	1.6

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

Volume change %	+37.0
Durometer change points shore A	-13
Elongation change %	-20
Tensile strength change Psi (Mpa)	-160 (-1.1)

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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