

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)

Information

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experimentations. It is not intended to substitute any testing you may need to conduct to determine suitability of our products for your end use. Northern Engineering reserves the right to revise this information as new knowledge and experience becomes available. Northern Engineering makes no warranties and assumes no liability in connection with any use of the above information.