

**MATERIAL**

Silicone 75 Shore FDA, 3A & USp Class VI Red  
ASTM D 2000 M2GE 709 A19B37E036

**DESCRIPTION**

Low compression set Silicone O ring moulding grade material  
FDA compliant to CFR 21 177-2600 & European regulations EC1935/2004  
3-A 18-03 compliant to Class 1  
Meets EN10/2011

**APPLICATION**

This material has excellent thermal resistance to both high and low temperatures, is good with oxygen and ozone attack and has a very high permeability resistance.

**TEMPERATURE**

Low temperature service limit -76°F (-60°C)  
Upper temperature continuous service limit +446°F (+230°C)

**PRODUCTS**

Moulding (custom/O rings)

**PHYSICAL PROPERTIES**

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.56
Durometer shore A (slab)	ASTM D2240	74
Elongation % (Dumbbell)	ASTM D412	160
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1378 (9.5)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	7.46

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

Durometer change points shore A	-1
Elongation change %	-24
Tensile strength change Psi (Mpa)	-290 (-2)
Weight loss grams	0.14

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

Volume change %	+32
Durometer change points shore A	-18
Elongation change %	-6.9
Tensile strength change Psi (Mpa)	-275 (-1.9)

**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.