



MATERIAL

Silicone 75 Shore FDA and 3A Red
ASTM D 2000 M2GE 707 A1 9B37E036

DESCRIPTION

Low compression set Silicone O ring extrusion grade material
FDA compliant to CFR 21 177-2600 & European regulations EC1935/2004
3-A 18-03 Class 1 compliant (except for tensile strength)
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

Encapsulated Seals
Extrusions (cords/profiles/tubes)
Hot Vulcanised O rings & Profiles

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.58
Durometer shore A (slab)	ASTM D2240	74
Elongation % (Dumbbell)	ASTM D412	159
Tensile strength PSI (MPa) (Dumbbell)	ASTM D412	1174 (8.1)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	9.6

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

Durometer change points shore A	-1
Elongation change %	-20
Tensile strength change PSI (MPa)	-217 (-1.5)
Weight loss grams	0

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

Volume change %	+29
Durometer change points shore A	-20
Elongation change %	0
Tensile strength change PSI (MPa)	-218 (-1.5)

Information

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