



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
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

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