

# MC308 Silicone 70 Shore 'FDA/USP VI'

## ASTM D 2000 M2GE 707 A19B37EO36

Material Datasheet • Issue 1 • Feb 2017

### Material

Silicone 70 Shore 'FDA/USP VI'  
ASTM D 2000 M2GE 707 A19B37EO36

### Description

- Translucent Silicone rubber
- Cure system is peroxide.

### Application

This material has excellent thermal resistance to both high and low temperatures, is good with oxygen and ozone attack and has very high permeability resistance. Approved to USP Class VI, is USP biological reactivity tested in vivo and extraction tested at 121°C and is FDA compliant to CFR 21 177-2600

### Temperature

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

### Products

- Encapsulated O Rings
- Extrusions (cords/profiles/tubes)
- Mouldings (Custom/O Rings)
- VulcOrings & Vulcanised Profiles



### Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	1.19
Durometer shore A (slab)	ASTM D2240	67
Elongation % (Dumbbell)	ASTM D412	369
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1436 (9.9)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	17.8

Heat Ageing 70h @ 437°F (225°C) ASTM D573	
Durometer change points shore A	+1
Elongation change %	-94
Tensile strength change Psi (MPa)	-580 (-4.0)
Weight loss %	2.2

Fluid Immersion Oil No 3 70h @ 302°F (150°C) ASTM D 471	
Volume change %	+37.5
Durometer change points shore A	-21
Elongation change %	-109
Tensile strength change Psi (Mpa)	-464 (-3.2)

### 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.

