

MC313 Silicone 70 Shore Translucent 'FDA/USP VI'

ASTM D 2000 M2GE 707 A19B37EO36

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Material

Silicone 70 Shore Translucent 'FDA/USP VI'
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Description

- Translucent Silicone rubber
- The 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 is extraction tested at 121°C

Temperature

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

Products

- Mouldings (Custom/O Rings)



Physical Properties

Original	Standard	Typical Values
Specific Gravity	ASTM D1817	1.18
Durometer shore A (slab)	ASTM D2240	65
Elongation % (Dumbbell)	ASTM D412	421
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	1407 (9.7)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	13.3

Heat Ageing 70h @ 437°F (225°C) ASTM D573

Durometer change points shore A	+1
Elongation change %	-204
Tensile strength change Psi (MPa)	-623 (-4.3)
Weight loss %	2.0

Fluid Immersion Oil No 3 70h @ 302°F (150°C) ASTM D 471

Volume change %	+38.3
Durometer change points shore A	-23
Elongation change %	-207
Tensile strength change Psi (MPa)	-623 (-4.3)

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.

