Material Data Sheet

MC330 Silicone 70 Shore Metal/X-Ray Detectable FDA Blue

Apr-2022 Revision: 6

MATERIAL

Silicone 70 Shore Metal/X-Ray Detectable FDA & 3-A Blue
ASTM D 2000 M2GE 704 A19B37E036

DESCRIPTION

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 and is good with oxygen and ozone attack. This compound can be detected by metal detectors and X-Ray detectors.

TEMPERATURE

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

PRODUCTS

Extrusions (cords/profiles/tubes)
Hot Vulcanised O rings
Moulding (custom/O rings)

PHYSICAL PROPERTIES

ORIGINAL	STANDARD	TYPICAL VALUES
Specific Gravity	ASTM D1817	1.33
Durometer shore A (slab)	ASTM D2240	69
Elongation % (Dumbbell)	ASTM D412	167
Tensile strength Psi (Mpa) (Dumbbell)	ASTM D412	681 (4.7)
Compression set % 22h @ 347°F (175°C) (slab)	ASTM D395B	14.8
HEAT AGEING 70h @ 437°F (225°C) ASTM D573		
Durometer change points shore A		-2
Elongation change %		-18
Tensile strength change Psi (Mpa)		-14 (-0.3)
Weight loss %		1.6
FLUID IMMERSION Oil No 3 70h @ 302°F (150°C) ASTM D471		
Volume change %		+37.0
Durometer change points shore A		-13
Elongation change %		-20
Tensile strength change Psi (Mpa)		-160 (-1.1)

Sample tests were carried out on a Mettler Toledo Advanchek 300 machine, tests were carried out on a standard head 350mm wide x 175mm high, frequency at both 100 Khz and 300Khz, samples down to 2mm were detected.

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