



MR O-RING

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Material Datasheet

Compound #: S70C

Silicone, Red, FDA-Grade

Material Summary		
Material Type:	Silicone Rubber	
Durometer:	70	
Color:	Red	
Recommended Temperature Range (Static):	-60°C to 225°C	
Cure System:	Peroxide	
Specification:	ASTM D2000-01 M5GE706 A19 B37 EO16 EO36 EA14 F19 G11	
Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15)	70±5	71
Tensile Strength, psi(MPa) (ASTM D412-15a)	870(6)(min)	1157(7.98)
Elongation, (%) (ASTM D412-15a)	150(min)	168.38
Specific Gravity, g/cm ³	1.46-1.51	1.51
(A19) Heat age, 70 Hrs @ 225 °C in a forced air oven (ASTM D573)		
Hardness Change, pts.	+10(max)	+3
Tensile Strength Change, %	-25(max)	-24.4
Elongation Change, %	-30(max)	-27
(B37) Compression set, 22 Hrs @ 175 °C (ASTM D395)		
-	30%(max)	27.9
(EO16) Fluid Immersion, 70 Hrs @ 140 °C (ASTM D471)		
Hardness Change, pts.	-15~0	-2
Tensile Strength Change, %	-20(max)	+5.1
Elongation Change, %	-20(max)	-4.6
Volume Change, %	0~+10	+5.08
(EO36) Fluid Immersion, 70 Hrs @ 100 °C (ASTM D471)		
Durometer Change, Shore A	-30	-21
Volume Change, %	+60%(max)	+34.99
(G11) Tear B (ASTM D624)		
Tear Strength (PLI)	51.1(max)	98.4
Specifications Met		
Z-R-765B Class 2a & 2b, Grade 70 and FDA CFR 177.2600		
AMS 3304 (Size per AS3582) Specification		

*American Society for Testing and Materials

Information within this report is believed to be accurate and reliable. However, Mr. O-Ring makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate prior to use.