

Material Datasheet

Compound #: S60610

Silicone Rubber, FDA

Material Summary

Material Type:	Silicone Rubber
Durometer:	60
Color:	Red
Special Properties:	Meets FDA 21 CFR 177.2600
Recommended Temperature Range (Static):	-55°C to 200°C
Cure System:	Peroxide
Specification:	ASTM D2000 M4GE605 A19 B37 EA14 EO16 EO36 F19

Original Properties	Requirements	Typical Results
Hardness, Shore A (Type M), D2240-15	60±5	57
Tensile Strength, min, Mpa, D412-16	5	7
Elongation, min, %, D412-16	200	344
Specific Gravity (S.G), D297-15	Report	1.29
(A19) Heat age, 70 Hrs @ 225 °C (ASTM D573-15)		
Hardness Change, points, max	+10	-3
Tensile Change, max, %	-30	-17
Elongation Change, max, %	-30	-20
(B37) Compression set, 22 Hrs @ 175 °C (ASTM D395-18, Method B)		
-	50 (max, %)	16
(EA14) Water Resistance, 70 Hrs @ 100 °C (ASTM D471-16)		
Hardness Change, points, max	±5	-2
Volume Change, %	±5	3
(EO16) IRM 901 Oil, 70 Hrs @ 150 °C (ASTM D471-16)		
Hardness Change, pts.	-15~0	-5
Tensile Strength Change, %	-20(max)	-10
Elongation Change, %	-20(max)	-6
Volume Change, %	0~+15	7
(EO36) IRM 903 Oil, 70 Hrs @ 150 °C (ASTM D471-16)		
Hardness Change, pts.	-35(max)	-20
Volume Change, %	+60(max)	+48.0
(F19) Low-Temperature Brittleness Point Test, 3 minute @ -55 °C (ASTM D2137-11(18))		
Non-brittle after 3 min at -55°C	Pass	Pass

*American Society for Testing and Materials

Report Date: 9/12/2020

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal 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.