

## Material Datasheet

**Compound #: F70323**

**Fluorosilicone, FDA, UL157**

### Material Summary

Material Type:	Fluorosilicone
Durometer:	70
Color:	Blue
Special Properties:	FDA Compliant, UL 157 Certified
Recommended Temperature Range (Static):	-60°C to 176°C
Cure System:	Peroxide
Specification:	ASTM D2000 M2FK606 A19 EF31 EO36 F19 Z1

Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15)	70±5	72
Tensile Strength, psi(MPa) (ASTM D412-16)	870(6)(min)	1030(7.10)
Elongation, (%) (ASTM D412-16)	150(min)	222
Modulus at 100%, psi(MPa) (ASTM D412-16)		553(3.81)
Density, (Mg/m <sup>3</sup> ) (CNS 5341-96, Method A)		1.58
<b>(A19) Heat Age, 70 Hrs @ 225 °C (ASTM D573-04)</b>		
Hardness Change, pts.	+15(max)	+1
Tensile Strength Change, %	-45(max)	-30
Elongation Change, %	-45(max)	-22
Weight Change, %		-0.9
<b>(Z1) Compression Set, 22 Hrs @ 175 °C (ASTM 395-18, Method B)</b>		
-	25%(plied)(max)	18.5
<b>(EF31) ASTM Fuel C Resistance, 70 Hrs @ 23 °C (ASTM D471-16a)</b>		
Hardness Change, pts.	-15~0	-11
Tensile Strength Change, %	-60(max)	-7
Elongation Change, %	-50(max)	-9
Volume Change, %	0~+25	+21.2
<b>(EO36) IRM 903 Oil, 70 Hrs @ 150 °C (ASTM D471-16a)</b>		
Hardness Change, pts.	-10~0	-4
Tensile Strength Change, %	-35(max)	-7
Elongation Change, %	-30(max)	-5
Volume Change, %	0~+10	+3.6

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**(F19) Low-Temperature Brittleness Point Test, 3 minute @ -55 °C (ASTM D2137-11, Method C)**

Sample type: T-50,		
Coolant : Isopropyl alcohol,		
Low Temperature Property,	no crack	pass

\*American Society for Testing and Materials

Report Date: 3/20/2023

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.