
Compound S70610 Data Sheet

Material: Silicone Rubber
70 Durometer, Red, FDA

General Information:

Silicone has excellent heat, ozone, and corona resistance and has good dielectric stability and resistance to many oils, chemicals and solvents. Silicone possesses the best flexible property at low temperature but has low tensile strength and poor wear and tear resistance.

Cure System: *Peroxide-cured*

Peroxide-cured compounds typically provide increased compression set resistance, higher temperature performance, higher ultimate tensile strength, and increased chemical resistance.

Temperature Range: -60°C (-76°F) to 225°C (437°F)

Attributes:

Color: Red

Durometer Shore A: 70±5

Shelf-life: Unlimited

FDA Compliant 21 CFR 177.2600

Performs Well In:

- Engine and transmission oil (mineral oils)
- Diluted salt solution
- Moderate water
- Dry heat
- Ozone and weather resistance

Doesn't Perform Well In:

- Concentrated acids and alkalis
- Steam over 120°C (248°F)
- Petroleum oils and fuel
- Ketones

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	TEST REPORT COMPOUND S70610 MATERIAL: SILICONE RUBBER DUROMETER: 70 COLOR: RED ASTM* D2000 M5GE706 A19 EA14 EO16 EO36 F19				
	SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	TYPICAL RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES				
	Hardness, Shore A	70±5	68	D2240-15	
	Tensile Strength, min, psi	6	7.0	D412-16	
	Elongation, min, percent	150(min)	265	D412-16	
	Specific Gravity (24.9°C)	Report	1.39	D297-15	
A19	HEAT AGE				D573-16a
	70 hours at 225°C				
	Hardness Change, points	+10(max)	+3		
	Tensile Strength Change, percent	-25(max)	-13		
B37	Compression Set			D395-18	
	22 hours at 175°C, max, %	25	15.0		
EA14	WATER RESISTANCE				D471-16a
	70 hours @ 100°C				
	Hardness Change, points	±5	-3		
EO16	IRM 901 OIL				D471-16a
	70 hours at 150°C				
	Hardness Change, points	-15~0	-5		
	Tensile Change, max, percent	-20(max)	-6		
	Elongation Change, max, percent	-20(max)	+8		
EO36	IRM 903 OIL				D471-16a
	70 hours at 150°C				
	Hardness Change, points	-30(max)	-16		
	Volume Change, percent	+60(max)	+38		
F19	LOW-TEMP BRITTLNESS POINT TEST				D2137-11C
	3 minute @ -55°C				
	Sample type: T-50	no-cracks	pass		
	Coolant: Isopropyl alcohol				
	Low Temperature Property				
FDA Compliant 21 CFR 177.2600					

*American Society for Testing and Materials

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.

Date: 9/12/2020