
O-Ring Compound S70FDA Data Sheet

Silicone Rubber
70 Durometer, Red

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*

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

Attributes:

- Color: Red
- 65-75 Shore A durometer
- Shelf-life: Unlimited
- Relative cost: Medium to High

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 FOR O-RING COMPOUND S70FDA

MATERIAL: SILICONE RUBBER

DUROMETER: 70

COLOR: RED

ASTM* D2000 M2GE705 A19 B37 EA14 EO16 F19

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A	70±5	72	D2240-15
	Tensile Strength, psi (MPa)	725(5)(min)	919(6.34)	D412-15a
	Elongation, min, percent	150(min)	228	D412-15a
	Modulus @ 100%, psi (Mpa)		612(4.22)	D412-15a
	Specific Gravity,(g/cm³)		1.32	
A19	HEAT AGE 70 hours at 225°C			D573-04
	Hardness Change, points	+10(max)	+3	
	Tensile Strength Change, percent	-25(max)	+3	
	Elongation Change, percent	-30(max)	-27	
	Weight Change, percent		-4.7	
B37	COMPRESSION SET 22 hours at 175°C, percent	25%(plied)(max)	19.7	D395-16B
EA14	WATER RESISTANCE 70 hours @ 100°C			D471-16a
	Hardness Change, points	±5	-3	
	Tensile Change, max, percent		-1	
	Elongation Change, max, percent		-29	
	Volume Change, percent	±5	+1.4	
EO16	IRM 903 OIL 70 hours at 150°C			D471-16a
	Hardness Change, points	-10~0	-3	
	Tensile Change, max, percent	-30(max)	0	
	Elongation Change, max, percent	-30(max)	-17	
	Volume Change, percent	0~+15	+4.2	
F19	LOW-TEMP BRITTLNESS POINT TEST 3 minute @ -55°C	no-cracks	pass	D2137-11A
	Sample type: T-50			
	Coolant: Isopropyl Alcohol			
	Brittleness temp to nearest 1°C			