
Cord Compound S70FDACD Data Sheet

Material: 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) to 225°C (437°F)

Attributes:

Color: Red

Durometer Shore A: 70±5

Shelf-life: Unlimited

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 CORD COMPOUND S70FDACD MATERIAL: SILICONE RUBBER DUROMETER: 70 COLOR: RED ASTM* D2000-01 Grade M5GE706 A19 B37 EO16 EO36 EA14 F19 G11		
SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	ORIGINAL PHYSICAL PROPERTIES			
	Hardness, Shore A	70±5	71	D2240-15
	Tensile Strength, min	870 psi min	1157	D412-15a
	Elongation, min, percent	150(min)	168.38	D412-15a
	Specific Gravity, (g/cm ³)	1.46-1.51	1.51	
A19	HEAT AGE 70 hours at 225°C in a forced air oven			D573
	Hardness Change, points	+10(max)	+3	
	Tensile Strength Change, percent	-25(max)	-24.4	
	Elongation Change, percent	-30(max)	-27	
G11	Tear B			D624
	Tear Strength (PLI)	51.1 max	98.4	
B37	COMPRESSION SET			D395
	22 hours at 175°C, percent	30%(max)	27.9	
EO16	FLUID IMMERSION 70 hours at 150°C			D471
	Hardness Change, points	0 to -15	-2	
	Tensile Change, max, percent	-20% max	+5.1	
	Elongation Change, max, percent	-20% max	-4.6	
	Volume Change, percent	0 to 10% max	+5.08	
EO36	FLUID IMMERSION 70 hours @ 150°C			D471
	Durometer Change (Shore A)	-30	-21	
	Volume Change, percent	+60% max	+34.99	

Specifications Met:
 ZZ-R-765B Class 2a & 2b, Grade 70 and FDA CFR 177.2600
 AMS 3304 (Size per AS3582) Specification

*American Society for Testing and Materials