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SR-200 Extruded Silicone Rubber Tubing

SR-200 Silicone Rubber extruded tubing is an extremely elastic material made from a high-strength silicone rubber compound exhibiting outstanding high-temperature stability combined with low-temperature flexibility. Rated as a Class H material, this 50-durometer compound is capable of continuous operation at 250°C (482°F). In addition to its exceptional flexibility and mechanical strength (excellent tear resistance, tensile strength, elongation, and weathering resistance) it offers outstanding dielectric strength and corona resistance.

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Uses

SR-200 is widely used in high-temperature, high-voltage applications where other types of insulation would be subject to corona breakdown. It is suitable wherever conditions require a high degree of reliability.

Specifications

SR-200 meets performed requirements of Military Specification MIL-R-5847 and Federal Specification ZZ-R-765, Class 2b, Grade 50.

Color

Standard Color: White Other colors subject to factory quotation upon request.

Voltage

Standard Wall - 300 Volt Heavy Wall - 600 Volt SR-200 is a Non-Stock Material subject to factory quotation upon request. All sizes can be supplied in various lengths cut to customer's

CHARACTERISTICS OF EXTRUDED SILICONE RUBBER TUBING		
PROPERTY	TEST METHOD	PERFORMANCE
Dielectric Strength	ASTM D 149	Minimum 400 volts per mil. Not influenced by variations in temperature.
Dielectric Constant	ASTM D 150	3.10 ± .05
Dissipation Factor	ASTM D 150	Less than .003
Volume Resistivity	ASTM D 150	More than 10 OHM-CM
Thermal Characteristics	ZZ-R-765	Heat Resistance: Short term high temp operations at 450°F. Recommended for continuous operations up to 400°F. Heat Aging: Retains more than 80% tensile strength and elongation after 7 days at 225°C. Insulating properties retained at temperature extremes. An excellent conductor of heat as compared with other electrical insulating materials.
Durometer, Hardness Shore A	ASTM D 2240	50±5
Flexibility		Superior: Extremely elastic, can withstand repeated flexing without loss of dielectric strength. Retains flexibility at high and low temperatures.
Low Temp Brittle Point (Whole Tube)	ASTM D 876	-70°C
Water Absorption	ZZ-R-765	Maintains excellent electrical and physical properties during and after prolonged exposure to high humidity or immersion in water for 70 hours at 100°C.
Compatibility		Completely compatible with all wire enamels and encapsulating materials. Outstanding release from sticking.
Chemical Resistance		Good resistance to lubricating oils, animal and vegetable oils, alcohols, ketones and most dilute acids and alkalis.
Aging Resistance	ZZ-R-765	Extreme aging resistance. Contains no plasticizers or other volatile or oxidizing materials which might migrate to the surface, evaporate and cause hardening and cracking.
Sunlight and Weathering Resistance		Excellent
Corona Resistance	ASTM D 2633	Excellent. Approaches that of mica.
Abrasion Resistance	MIL-T-5438	Fair
Fungus Resistance	ASTM G 21	Inert to fungi
Tensile Strength	MIL-R-5847	1000psi Minimum

Ultimate Elongation	MIL-R-5847	400% Minimum
Tear Resistance	MIL-R-5847	150psi
Cut-Through Resistance		Good
Gamma Radiation Dosage, RAD		10 - 10
Above values are typical performance data for SR-200 Tubing and are not intended to be used as design data.		

specifications, subject to factory quotation upon request.

Size	Nominal I.D. (Inch / mm)	Standard Wall (300 Volt)	Heavy Wall (600 Volt)
22	0.027 / 0.69	0.016	0.033
20	0.034 / 0.86	0.016	0.033
19	0.040 / 1.02	0.016	0.033
18	0.042 / 1.07	0.016	0.033
16	0.053 / 1.35	0.016	0.033
15	0.063 / 1.60	0.016	0.033
14	0.064 / 1.63	0.016	0.033
12	0.084 / 2.13	0.016	0.033
11	0.93 / 2.36	0.016	0.033
10	0.106 / 2.69	0.016	0.033
9	0.124 / 3.15	0.020	0.038
8	0.133 / 3.38	0.020	0.038
7	0.148 / 3.76	0.020	0.038
6	0.166 / 4.22	0.020	0.038
5	0.186 / 4.72	0.020	0.038

2	0.263 / 6.68	0.020	0.038
1	0.294 / 7.47	0.020	0.038

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