

SILICONE RESIN-HD FIBERGLASS SLEEVING

Class 220°C • Silicone Resin-HD Fiberglass Sleeving for High Temperature Applications

MIL-I-003190/5 (Grade A) Class 220°C, NEMA TF-1

UL Recognized Component 600V - 200°C Grade A VW-1 File # E66526

Canadian Standards Association 600V - 200°C Grade A File # 37065



DESCRIPTION

Silicone Resin-HD sleeving consists of a finely braided fiberglass braid impregnated and coated with a silicone resin. It is designed to perform continuously in the range of temperatures from -75°C to 220°C.

FEATURES

Silicone Resin-HD fiberglass sleeving has especially good radiation resistance in addition to resistance to ozone, moisture, corona, weathering, fungus and chemical attack.

Where resistance to failure on push-back is required, we recommend silicone rubber-coated fiberglass sleeving.

APPLICATIONS

Silicone Resin-HD fiberglass sleeving finds application in aerospace installations. It is useful on equipment leads, heating

cable and relay leads where temperatures up to 220°C are encountered.

ADVANTAGES

Silicone Resin-HD fiberglass sleeving combines excellent chemical and radiation resistance with the ability to withstand temperatures up to 220°C.

APPLICABLE SPECIFICATIONS

ASTM D372, MIL-I-003190/5 (Grade A), NEMA TF-1.

AVAILABLE GRADES

ASTM D372, Grades A, B, C-1.

STANDARD COLORS

Natural

DIMENSIONS

Size	I.D. Maximum		I.D. Minimum		Feet in Standard Package
	Inch	(mm)	Inch	(mm)	
24	.027	(.56)	.020	(.51)	500
22	.032	(.81)	.025	(.64)	500
20	.039	(.99)	.032	(.81)	500
18	.049	(1.24)	.040	(1.02)	500
17	.054	(1.37)	.047	(1.19)	500
16	.061	(1.55)	.051	(1.30)	500
15	.067	(1.70)	.057	(1.45)	500
14	.074	(1.88)	.064	(1.63)	500
13	.082	(2.08)	.072	(1.83)	250
12	.091	(2.31)	.081	(2.06)	250
11	.101	(2.57)	.091	(2.31)	250
10	.112	(2.84)	.102	(2.59)	250
9	.124	(3.15)	.114	(2.90)	250
8	.141	(3.58)	.129	(3.28)	250
7	.158	(4.01)	.144	(3.66)	250
6	.178	(4.52)	.162	(4.11)	250
5	.198	(5.03)	.182	(4.62)	250
4	.224	(5.69)	.204	(5.18)	250
3	.249	(6.32)	.229	(5.82)	250
2	.278	(7.06)	.258	(6.55)	250
1	.311	(7.90)	.289	(7.34)	100
0	.347	(8.81)	.325	(8.26)	100
3/8"	.399	(10.13)	.375	(9.53)	100
7/16"	.462	(11.73)	.438	(11.13)	100
1/2"	.524	(13.31)	.500	(12.70)	100
5/8"	.655	(16.64)	.625	(15.88)	100
3/4"	.786	(19.96)	.750	(19.05)	100
7/8"	.911	(23.14)	.875	(22.23)	100
1"	1.036	(26.31)	1.000	(25.40)	100

PERFORMANCE CHARACTERISTICS

Dielectric Breakdown (ASTM D372) Grade	Typical Test Results			
	Requirements		Test Results	
	Min. Avg. Volts	Min. Indiv. Volts	Min. Avg. Volts	Min. Indiv. Volts
A - C-48/23/50 C-96/23/96	7,000	5,000	8,700	7,800
	70% of above		8,700	7,800
B - C-48/23/50 C-96/23/96	4,000	2,500	4,800	4,200
	1,200	750	4,500	4,000
C-1 - C-48/23/50 C-96/23/96	2,500	1,500	3,100	2,700
	Not Applicable		Not Applicable	

Property	Requirements	Results
Aging	No cracking after 168 hrs. exposure 250°C	No cracking
Oil Immersion	No disintegration or swelling after 4 hrs. in ASTM Oil #2 @ 105°C	No disintegration or swelling
MIL-I-003190 Flammability (Method B)	Shall require at least 45 seconds to burn 1 inch	Self Extinguishing
Compatibility with Magnet Wire (Method A)	Magnet wire shall have 50% of original dielectric strength after exposure to sleeving for 672 hrs. @ 200°C	Passes
Thermal Endurance	Extrapolated temperature 200°C for 15,000 hrs.	220°C