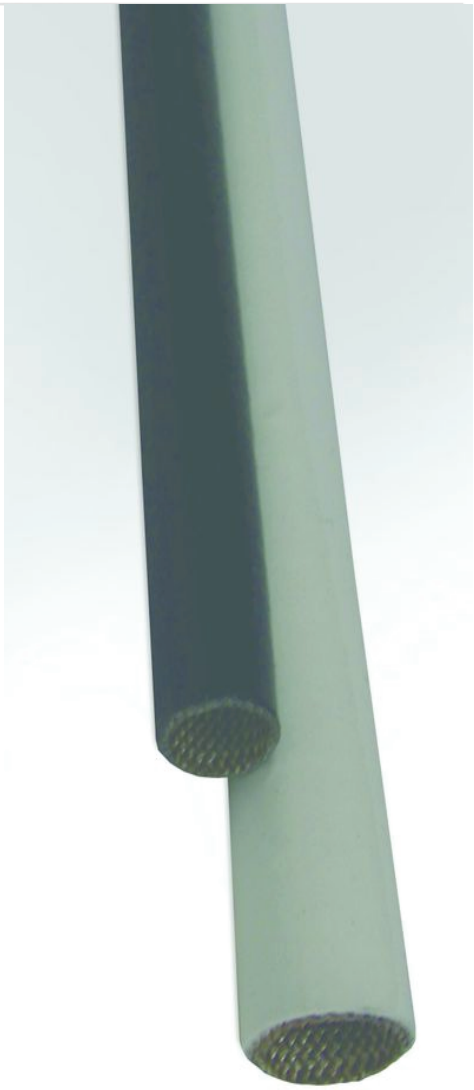
SILICONE RUBBER-HD



Product Highlights

- Class 200°C
- Applicable Documents
  ASTM D-350
  NEMA TF-1
  MIL-I-3190/6
- UL Recognized Component (Grade A) for 200°C, 600 Volts and VW-1 compliant under UL File No. E63446.
- Available Grades; A, B, C-1
- Available in Red, Black, Natural and White - Specialty Colors Available Upon Request.
- Available in AWG sizes #24 through 2" I.D.

Silicone Rubber-HD Fiberglass Sleeving

Silicone Rubber-HD fiberglass sleeving consists of a silicone elastomer securely bonded to its supporting fiberglass braid. It is designed to remain flexible over wide operating temperature extremes (-75°C to 220°C).

Its resistance to ozone, corona, radiation, moisture, compression set, weathering, fungus, and chemical attack provides many advantages to electrical systems. Silicone Rubber-HD sleeving gives top performance in high temperature applications where no other sleeving can be used.

Suggested Applications

Silicone Rubber-HD sleeving is suitable for high altitude and aerospace applications. It is recommended for apparatus leads, appliance and fixture wire insulation, heating cable, ignition systems, relay leads and aircraft wire where a 200°C+ thermal rating is required. It is particularly well suited as heavy duty insulation where subjected to high heat such as in diecasting and plastic molding and in numerous military electronic applications.

Packaging

Spools - Standard
36" Lengths and cut pieces available on special order.

SUFLEX® SILICONE RUBBER-HD

Product Specifications

SIZE	Maximum I.D. (inches)	Maximum I.D. (mm)	Minimum I.D. (inches)	Minimum I.D. (mm)	Standard Packaging (Feet)
24	.027	(.66)	.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)	.045	(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
½"	.524	(13.31)	.500	(12.70)	100
5/8"	.655	(16.64)	.625	(15.88)	100
¾"	.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

Dielectric Breakdown Grade (ASTM D-350)		Typical Test Results			
		Requirements		Test Results	
		Min. Avg. Volts	Min. Indiv. Volts	Min. Avg. Volts	Min. Indiv. Volts
A	C-48/23/50	8,000	6,000	8,700	7,800
	C-96/23/96	80% of above		8,700	7,800
B	C-48/23/50	4,000	2,500	5,000	4,500
	C-96/23/96	1,200	750	4,750	4,100
C-1	C-48/23/50	2,500	1,500	3,000	2,500
	C-96/23/96	Not Applicable		Not Applicable	

Performance Characteristics		
Property	**Requirements**	**Results**
Aging	No cracking after 168 hrs. exposure 250°C	No Cracking
Oil Immersion	No disintegration or swelling after 24 hrs. In ASTM Oil #2 @ 105°C	No Disintegration or Swelling
MIL-I003190 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
Pushback Test (MIL-I-003190)	Shall not crack when length is reduced 20% after aging 168 hrs. @ 250°C	No cracks with 50% reduction in length