

Class 240

(-80°C to +240°C)

(-112°F to +464°F)

Varglas 240 Silicone Rubber Sleeving

Description

Varglas 240 Silicone Rubber Sleeving is produced by coating braided fiberglass with a specially formulated, proprietary silicone rubber that exhibits exceptional high-temperature properties. In addition to its flexibility, toughness and abrasion resistance, Varglas 240 Silicone Rubber provides superior thermal protection and flame resistance with a higher dielectric capability at less weight than previously available. Its ability to meet a Class 240°C rating, combined with a brittleness temperature of -80°C, makes it an ideal choice for applications that require outstanding physical and electrical insulation properties throughout a wide operating temperature range.

Specifications

Varglas 240 Silicone Rubber Sleeving conforms to, and is listed on the qualified Products List (QPL) for, MIL-I-3190/9, latest revision (Grade A); and exceeds the requirements of UL 1441, Table 19.8; NEMA TF-1, Type 5; and ASTM-D372.

Under the Component Program of Underwriters Laboratories, Grade A Varglas 240 Silicone Rubber is recognized for 240°C, 600 volt service and complies with VW-1 flammability requirements under UL File #E63450. CSA International certifies the use of Grade A for 240°C, 600 volt service and flammability requirements under CSA File #LR58486 VW-1/FT1.

Applications

Varglas 240 Silicone Rubber Sleeving is suitable for industrial applications such as motors, generators, transformers and engines where superior dielectric protection at elevated temperatures of 240°C is critical. In addition to automotive engines, Varglas 240 Silicone Rubber's flame resistance and wide-operating temperature range make it particularly well suited for aircraft engines and other aerospace applications where it satisfies electrical and thermal barrier requirements while providing the added benefit of lighter weight.

Sizes

AWG #24 through 2" I.D. Other sizes subject to inquiry.

Standard Color

Red oxide and black only.

Standard Packaging

Coils, spools or 36" lengths at manufacturer's option, unless otherwise specified. There is no cutting charge for 36" lengths, but lengths other than 36" are subject to cutting charges.

Sizes over 1" I.D. are generally supplied in 36" lengths.



Electrical Insulating Sleeving

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Varglas 240 Silicone Rubber Typical Properties

Property	Procedure	Performance
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Physical

Tensile Strength, Coating	ASTM-D412	1600 psi
Ultimate Elongation, Coating	ASTM-D412	800% @ 20°C
Hardness, Coating	ASTM-D2240	54 (Durometer, Shore A)
Flexibility and Toughness, Coating	UL 1441	Passes (Penetration Test)

Chemical

Oil and Solvent Resistance	MIL-I-3190/9	Passes
Water Vapor Resistance	MIL-I-3190/9	Passes
Resistance to Acids and Alkalies	—	Excellent
Resistance to the Elements	—	Unaffected by sunlight and weather.
Compatibility	UL 1446	Good. Compatible with most potting compounds and varnishes.

Electrical

Dielectric Strength after 48/23/50:		
Grade A	NEMA TF - 1	8000v min. avg., 6000v min. indiv.
Dielectric Strength after 96/23/96:		
Grade A	NEMA TF - 1	80% of Original Value.
Hydrolytic Stability after 336 hrs. @ 70°C over Constant Water Reflux	MIL-I-3190/9	Passes. 7000v min. avg. with no disintegration, reversion or cracks. (Spec. requires 5000v.)

Thermal

Thermal Endurance	MIL-I-3190/9 & UL 1441	Class 240°C (S)
Brittleness Temperature	ASTM-D350	- 80°C
Flame Resistance	UL 1441	Passes (VW-1)
	ASTM-D350, Method A	Passes
	NEMA TF-1	Passes
	MIL-I-3190/9, Method A	Passes
Pushback	MIL-I-3190/9	No cracks or ruptures. 6000 volts min. avg. breakdown strength.

Note:

Information contained here is precise and reliable. However, being unique, each end-use should be evaluated to satisfy its specific requirements.



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