

- UL Recognized: VW-1
- For High Temp - Low Voltage Applications
- Easy To Install-Cuts With Scissors
- Resists Most Organic Solvents
- Cut And Abrasion Resistant

Put-Ups

Nominal Size	Diameter	Part #	Wall Thickness ± 0.005"	Expansion Range		Bulk Spool	Shop Spool	Available Colors
				Min.	Max.			
7/16"	0.44"	FGM0.44	0.04"	7/16"	1/2"	250'	100'	2
1/2"	0.50"	FGM0.50	0.04"	1/2"	5/8"	250'	100'	2
5/8"	0.63"	FGM0.63	0.04"	5/8"	1 1/4"	250'	100'	2
3/4"	0.75"	FGM0.75	0.04"	3/4"	1 3/8"	250'	100'	2
7/8"	0.88"	FGM0.88	0.04"	7/8"	1 3/4"	250'	100'	2

Heat Treated, Fray-Resistant Fiberglass Sleaving



**Cut Cleanly
Scissors**

Techflex[®] INSULTHERM MEDIUM (FGM) is a braided fiberglass sleaving which has been heat treated and impregnated with an acrylic binder to reduce fraying and dusting, and improve usability and performance. FGM is engineered for applications where temperatures as high as 1,200°F may be encountered. FGM is used as primary insulation on low voltage applications such as leads in toasters, coffee makers, ranges and other appliances. FGM may also be used as insulation and protection for small heaters and resistors that operate at high temperatures, and to insulate over soldered connections when exposure to solder melt temperatures is possible.

Insultherm Medium provides a sturdy, long lasting and inexpensive insulation solution. It is flexible and expandable, and can easily be installed over applications with irregular shapes and tight turns. Standard color are Black and Orange.

**Colors
Available:**
2= OR & BK

Material

Acrylic Coated Fiberglass

Grade

FGM

Wall Thickness

.04"

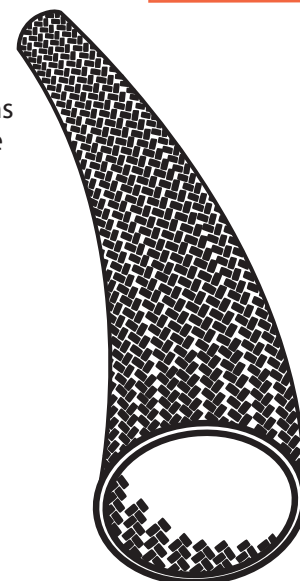
Drawing Number

TF001INS-WD

Colors Available:



Orange (OR) & Black (BK).



ABRASION FLAMMABILITY

Abrasion Resistance
Very High

Rating _____ UL VW-1

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
75°F

Humidity
15%

Slight Fraying
200 Test Cycles

Slight Fraying
1,000 Test Cycles

Fraying
1,700 Test Cycles

Material Destroyed
2,300 Test Cycles

Pre-Test Weight
15.3 g

Post-Test Weight
13.6 g

Test End Loss Of Mass
Point Of Destruction
11%

CHEMICAL RESISTANCE

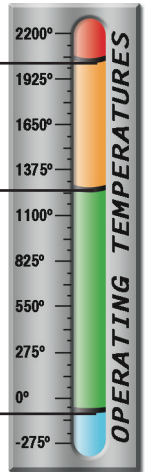
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

Aromatic Solvents _____	1
Aliphatic Solvents _____	1
Chlorinated Solvents _____	1
Weak Bases _____	1
Salts _____	1
Strong Bases _____	1
Salt Water 0-S-1926 _____	1
Hydraulic Fluid MIL-H-5606 _____	1
Lube Oil MIL-L-7808 _____	1
De-Icing Fluid MIL-A-8243 _____	1
Strong Acids _____	2
Strong Oxidants _____	2
Esters/Ketones _____	1
UV Light _____	2
Petroleum _____	1
Fungus ASTM G-21 _____	1
Halogen Free _____	Yes
RoHS _____	Yes
SVHC _____	None

Melt Point
ASTM D-2117
2,048°F (1,120°C)

Maximum Continuous
MIL-I-23053
1,202°F (650°C)

Minimum Continuous
-94°F (-70°C)



PHYSICAL PROPERTIES

Monofilament Diameter _____ NA
ASTM D-204

Flammability Rating _____ VW-1

Recommended Cutting _____ Scissor

Colors _____ 2

Wall Thickness _____ 0.04"

Specific Gravity *ASTM D-792* _____ 1.0-1.8

Moisture Absorption _____ .01
% ASTM D-570

TML _____ .02

CVCM _____ .01

WVR _____ .00

Outgassing _____ Low