

INSULTHERM® ULTRA FLEX® PRO HEAVY WALL CONSTRUCTION · CONTINUOUS FILAMENT E-TYPE GLASS STAYS FLEXIBLE IN LOW TEMPS

The heavy wall (1/32") construction, large available diameters and high expandability of Insultherm® Ultra Flex® Pro provides a high level of protection and ease of installation when used to insulate pipes and hoses subject to abrasion and vibration. Ultra Flex® Pro cuts easily with scissors, and special heat treated construction minimizes fraying and dusting during assembly.

SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	Wall Thickness	*Put-Ups		Available Colors	Lbs/100'
					M	L		
1/2"	FHH0.50NT	3/8"	5/8"	.025"	50'	100'	1	3.50
3/4"	FHH0.75NT	5/8"	1 5/32"	.040"	50'	100'	1	8.00
1"	FHH1.00NT	7/8"	1 3/8"	.032"	25'	50'	1	7.00
1 1/4"	FHH1.25NT	1"	1 3/4"	.035"	25'	50'	1	10.50
1 1/2"	FHH1.50NT	1 1/8"	2 1/8"	.035"	25'	50'	1	10.00

*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



FEATURES

Material	Fiberglass
Grade	FHH
Wall Thickness	Refer To Chart
Drawing Number	TF001FHH-WD
Cutting	Scissors

COLORS



Natural (NT)

CERTIFICATIONS



ABRASION

Abrasion Resistance	MEDIUM
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	75°F
Humidity	72%
Individual Fibers Visibly Broken	150 Test Cycles
Braid Worn Through In One Direction	500 Test Cycles
Material Destroyed	525 Test Cycles
Pre-Test Weight	20,831.10 mg
Post-Test Weight	19,203.20 mg
Test End Loss Of Mass Point Of Destruction	1,140.51 mg

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	NA
Flammability Rating	VW-1
Recommended Cutting	Scissors
Colors	1
Wall Thickness	.025"-.035"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	NA
Specific Gravity (ASTM D-792)	1.0-1.8
Moisture Absorption % (ASTM D-570)	.01
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	NA
TML	.01
CVCM	.00
WVR	.00
Smoke D-Max (ASTM E-662)	NA
Outgassing	Low
Oxygen Index (ASTM D-2863)	NA

FLAMMABILITY

Rating	VW-1
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OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	2,048°F / 1,120°C
Maximum Continuous (Mil-I-23053)	1,202°F / 650°C
Minimum Continuous (Mil-I-23053)	-94°F / -70°C

CHEMICAL RESISTANCE

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

Aromatic Solvents	1
Aliphatic Solvents	1
Chlorinated Solvents	1
Weak Bases	1
Salts	1
Strong Bases	1
Salt Water (O-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