

INSULTHERM® ULTRA FLEX® PRO

HEAVY WALL CONSTRUCTION · CONTINUOUS FILAMENT E-TYPE GLASS STAYS FLEXIBLE IN LOW TEMPS · PROTECTS TO 650°C

The heavy wall 0,8mm” 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	Kgs/100m
					M	L		
12,7mm	FHH0.50NT	9,5mm	15,9mm	0,6mm	15,2m	30,5m	1	5,21
19,1mm	FHH0.75NT	15,9mm	29,4mm	1,0mm	15,2m	30,5m	1	11,91
25,4mm	FHH1.00NT	22,2mm	34,9mm	0,8mm	7,6m	15,2m	1	10,42
31,8mm	FHH1.25NT	25,4mm	44,5mm	0,9mm	7,6m	15,2m	1	15,63
38,1mm	FHH1.50NT	28,6mm	54,0mm	0,9mm	7,6m	15,2m	1	14,88

*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 / 24°C
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	20 831,10mg
Post-Test Weight	19 203,20mg
Test End Loss Of Mass Point Of Destruction	1 140,51mg

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	NA
Flammability Rating	VW-1
Recommended Cutting	Scissors
Colors	1
Wall Thickness	0,6mm - 0,9mm
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	NA
Specific Gravity (ASTM D-792)	1,0 - 1,8
Moisture Absorption % (ASTM D-570)	0,01%
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	NA
TML	0,01
CVCM	0,00
WVR	0,00
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