

DEKORON "FR" TUBING (FLAME RETARDANT)

UL CLASSIFIED FOR FLAME AND SMOKE ONLY — NFPA 90A — 1985

Developed specifically for controlling flame spread and smoke generation. Dekoron 1219 FR (flame retardant) Tubing can be installed in accordance with NFPA Standard 90A "Installation of Air Conditioning and Ventilation Systems 1985.

Dekoron 1219 FR Tubing is made of exclusive "linear low-density polyethylene based formulation that is UL recognised. It combines the physical characteristics and long term stability of low-density polyethylene with flame retardant properties. Look for UL Classification marking on product.

Advantage

Dekoron 1219 FR Tubing prevents fire propagation, as it rapidly extinguishes after being removed from an open flame. "FR" Tubing is popular for flexibility, lightweight, abrasion resistance, high tensile strength and rugged environmental performance. To guarantee stress crack resistance, both the standard ASTM D 1693 test for stress cracking of base materials and a modified test on finished tubing are performed.

Easy to Install

Installation is simple and quick. Being flexible and lightweight, Dekoron 1219 FR Tubing can be installed by hand.

Availability

Four standard sizes in coils, black or seven standard colour stripes and shipped in convenient master pack quantities. 5/32" OD tubing supplied in black only.

Standard Lengths

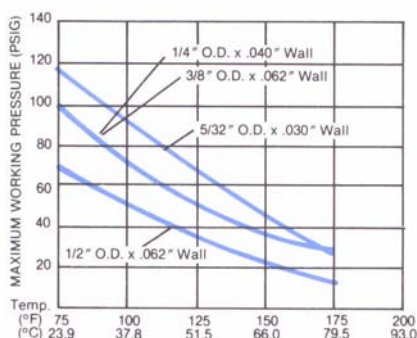
	Feet	Metres
5/32"	500	150m
1/4"	250, 500 & 1,000	76, 150 and 304m
3/8"	250 & 500	76 and 150m
1/2"	250	76m

Note

Authorities having jurisdiction should be consulted before installation.

Stripe	Colour	Stripe	Colour
All Black	O	Yellow	D
White	A	Green	E
Red	B	Blue	F
Orange	C	Violet	G

Synflex 1219 "FR" Tubing MAXIMUM RECOMMENDED WORKING PRESSURE VS. TEMPERATURE



Specifications

Part Number	O.D. (inches)	I.D. (inches)	Wall (inches)	Net Weight (lbs/100')	Unit Length (Feet)
1219-130X4*	5/32	0.096	0.30	0.57	500
1219-440X3*	1/4	0.170	0.40	1.26	250
1219-440X4*					500
1219-440X5*					1,000
1219-662X3*	3/8	0.250	0.62	2.9	250
1219-662X4*					500
1219-862X3*	250	0.375	0.62	4.06	250

* "X" indicates colour stripes. If no colour is indicated, black will be supplied.

Physical Properties of "FR" Tubing

Property	Test Method	Units	Typical Value
Melt Index (max)	ASTM D1238	Dg/min	1.0
Density, 23 degC	ASTM D 792	g/c.c	1.10
Tensile Strength	ASTM D 638	PSI	1900
Elongation (pull at 20*min)	ASTM D 638	%	400
Flexural Modulus of Elasticity	ASTM D 790	PSI	33,000
Environmental Stress Crack Resistance	ASTM D1693 See Note	% failures At 48 hours	0
Tube Strength (max)	-	Pounds	5/32" tube=14 1/4" tube=30 3/8" tube=67 1/2" tube=95
Minimum Bend Radius	-	Inches	5/32" tube=1/2 1/4" tube=3/4 3/8" tube=1-1/2 1/2" tube =1-7/8
Water Absorption	ASTM D 570	%	0.08
Maximum Service Temperature (Black)	-	Deg F	175
Flammability	UL 94 UL 910	-	V-2 Classified/ NFPA 90A
Polyethylene Classification	ASTM D1248	-	Type 1 Class C Category 4

Note: In addition to the standard stress crack test, a modified version of ASTM D 1693 to evaluate tubing quality is also performed. Sections of tubing are bent to induce severe stress in the tubing wall and then submerged in a 10% solution of Igepal (C0630). The samples and solution are placed in a controlled temperature environment at 50 degC. Samples must exhibit no cracking or crazing throughout the duration of the test to be considered satisfactory for extended use..

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