



# SHRINKABLE TUBING

MULTI-PURPOSE/POLYOLEFIN

## FP-105 Flexible - Multi Purpose



FP-105 is an irradiated polyvinylchloride material with high mechanical strength and excellent flexibility characteristics. Unlike non-irradiated expanded PVC tubing, FP-105 will not cold flow or melt, and longitudinal shrinkage is less than 10%.

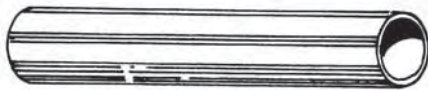
**PRODUCT FEATURES:**

Available in long lengths. Flexible. Flame retardant. Shrinks evenly - will not split even over sharp edges. Solder iron resistant.

OLYMPIC NO. & SIZE	MINIMUM SUPPLIED I.D.	MAXIMUM RECOVERED I.D.	NOMINAL RECOVERED WALL THICK.	SPOOLS STANDARD PUT-UP
FP-105-3/64	.046"	.023"	.020"	100', 500'
FP-105-1/16	.062"	.031"	.020"	100', 500'
FP-105-3/32	.093"	.046"	.020"	100', 200'
FP-105-1/8	.125"	.062"	.025"	100', 200'
FP-105-3/16	.187"	.093"	.025"	100', 200'
FP-105-1/4	.250"	.125"	.025"	100', 200'
FP-105-3/8	.375"	.187"	.030"	100', 200'
FP-105-1/2	.500"	.250"	.030"	100'
FP-105-3/4	.750"	.375"	.035"	100'
FP-105-1	1.000"	.500"	.040"	100'
FP-105-1-1/2	1.500"	.750"	.045"	100'
FP-105-2	2.000"	1.000"	.050"	25', 50'

STOCK COLOR: Black

## POLYOLEFIN FP-221



FP-221 is the most widely used, general purpose heat-shrinkable tubing. FP-221 is an irradiated flexible, flame retarded polyolefin tubing with a wide scope of applications. These include: harnessing, wire bundling, strain reliefs, or any application where components or cables must be insulated or packaged.

**PRODUCT FEATURES:**

Wide range of colors  
Wide range of sizes  
Flexible  
Sunlight resistant\*  
Flame retarded (except clear)  
UL and CSA accepted

**OPERATING TEMPERATURE:**

-55°C to +135°C

**SHRINKAGE RATIO:**

To 50% of supplied diameter at 121°C

**APPLICABLE SPECIFICATIONS:**

MIL-1 23053/5A  
MSFC-276B: Colors Type 1, Class 1  
Clear Type 1, Class 2  
LN 29807  
AMS-3636B Colors  
AMS-3637B Clear

**PHYSICAL PROPERTIES:**

Tensile Strength: 2500 PSI, nominal (176 kg/cm<sup>2</sup>)  
Ultimate Elongation: 400% nominal  
Longitudinal Shrinkage: 5% nominal  
Specific Gravity: 1.3

\*Not applicable to clear tubing

OLYMPIC NO. & SIZE	MINIMUM SUPPLIED I.D.	MAXIMUM RECOVERED I.D.	NOMINAL RECOVERED WALL THICK.	• STANDARD PKG. • 4' LGTHS. TOT. FTG.	SPOOLS TOT. FTG.
FP-221-3/64	.046"	.023"	.016"	100	1000
FP-221-1/16	.062"	.031"	.017"	100	1000
FP-221-3/32	.093"	.046"	.020"	100	500
FP-221-1/8	.125"	.062"	.020"	100	500
FP-221-3/16	.187"	.093"	.020"	100	500
FP-221-1/4	.250"	.125"	.025"	100	250
FP-221-3/8	.375"	.187"	.025"	100	200
FP-221-1/2	.500"	.250"	.025"	20	150
FP-221-3/4	.750"	.375"	.030"	20	250
FP-221-1	1.000"	.500"	.035"	20	250
FP-221-1-1/2	1.500"	.750"	.040"	20	125
FP-221-2	2.000"	1.000"	.045"	20	125
FP-221-3	3.000"	1.500"	.050"	8	100
FP-221-4	4.000"	2.000"	.055"	8	50

**CHEMICAL PROPERTIES:**

Corrosive Effect: passes copper corrosion test  
Flammability: Self-extinguishing, non-dripping  
Fungus Resistance: Does not support growth (ASTM G21)  
Water absorption: 0.5% Max.

**ELECTRICAL PROPERTIES:**

Dielectric Strength: 1300 V/mil (512 kV/cm)  
Volume Resistivity: 10<sup>15</sup> ohm-cm

**LONG LENGTH SPOOLS:**

FP-221 is available in long length spools for use in automatic cutting and marking equipment or where lengths of longer than 4' are required. Use of spooled FP-221 minimizes scrap, labor costs and allows a single inventory to fill many different types of applications

**UL CSA TAGGED**

Olympic supplies this material from stock unmarked. If marking is required, please indicate on your order.

**STOCK COLOR:**

Black & Clear