

Polyolefin Heat Shrink Tubing

2:1 Shrink Ratio



High compressive strength makes this tubing ideal for electrical insulation and strain relief, potentially eliminating the need for adhesive.

- **Flexible**
- **Excellent dielectric strength**
- **Thin walls**
- **Durable and tough**
- **Very low shrink temperature**
- **High shrink ratio**
- **Rapid recovery**
- **Excellent concentricity**
- **Good moisture/vapor barrier**
- **Controlled longitudinal shrinkage (<10%)**

APPLICATIONS

- Insulation for electrosurgical instruments
- Jacket for laparoscopic devices
- Coating for tapered guidewire
- Wire insulation
- Cover for coils & braids
- Jacket for laser-cut hypotube
- Strain relief
- Reinforcement to protect splices & components
- Thermoplastic welding
- Probe coating

CAPABILITIES

- Custom colors
- Precision cutting with tight tolerances
- Custom expansion of customer-supplied tubing
- Custom lamination of components

PROPERTIES

Shrink Temperature	~ 220° F/105° C
Durometer (Shore D)	63
Dielectric Strength	1000 volts/mil
Tubing Certification	USP Class VI
Sterilization	Stable with gamma, e-beam, or EtO sterilization Test for autoclave or repeat use
Longitudinal Shrinkage	<10%
Flexural Modulus	135,000 psi

Stock Tubing

2:1 Polyolefin tubing is supplied in:

60" (150 cm) lengths | Spools | Custom lengths

63 DUROMETER 2:1 POLYOLEFIN HEAT SHRINK TUBING

Expanded ID (min)	Recovered ID (max)	Recovered Wall Thickness*	Color	Product ID
0.016" (0.40 mm)	0.010" (0.25 mm)	0.002" (0.05 mm)	Clear	U2-016-CLR
0.020" (0.50 mm)	0.010" (0.25 mm)	0.005" (0.10 mm)	Clear	X2-025-CLR
0.034" (0.90 mm)	0.020" (0.50 mm)	0.005" (0.10 mm)	Black	X2-034-BLK
0.034" (0.90 mm)	0.020" (0.50 mm)	0.005" (0.10 mm)	Clear	X2-034-CLR
0.050" (1.30 mm)	0.035" (0.90 mm)	0.002" (0.05 mm)	Clear	U2-055-CLR
0.066" (1.70 mm)	0.040" (1.00 mm)	0.003" (0.07 mm)	Clear	U2-070-CLR
0.066" (1.70 mm)	0.040" (1.00 mm)	0.009" (0.20 mm)	Clear	X2-070-CLR
0.100" (2.50 mm)	0.060" (1.50 mm)	0.004" (0.10 mm)	Clear	U2-110-CLR
0.140" (3.50 mm)	0.090" (2.30 mm)	0.005" (0.10 mm)	Black	U2-170-BLK

*Tubing wall as supplied will be thinner than recovered wall thickness.

Custom Tubing

2:1 Polyolefin tubing is available in custom:

Colors | Durometers | Expansion ratios | Cut lengths

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Have a question or want to discuss custom tubing to fit your engineering requirements?

Contact our Technical Team at sales@cobaltpolymers.com or (800) 337-0901.