

Medical Grade. Ultra Thin Wall. Polyolefin Heat Shrink Tubing.

Cobalt Polymers introduces the Iridium family of heat shrinkable tubing. Highly flexible tubing made from a Class VI polyolefin: thin, pliable and tough to address the dynamic requirements of device design and manufacturing.

- Standards sizes for requirements between 0.010" (0.25mm) and 0.360" (9.2 mm)
- Excellent engineering properties from a proven material
- Overlapping sizes and varying wall thickness provide options at most diameters
- Expansion ratios of 2:1 and 4:1: Custom sizes and ratios readily available.

Available Stock Sizes:
'2:1' Shrink IRIDIUM™ Tubing: Standard Sizes

| Expanded (min) | ID Recovered ID (max) | Wall Thickness (recovered) | Color | Product ID |
|----------------|-----------------------|----------------------------|-------|------------|
| 0.016" (0.4mm) | 0.010" (0.25mm) | 0.002" (.05mm) | Clear | U2-016-CLR |
| 0.020" (0.5mm) | 0.010" (0.25mm) | 0.005" (0.1mm) | Clear | X2-025-CLR |
| 0.034" (0.9mm) | 0.020" (0.5mm) | 0.005" (0.1mm) | Black | X2-034-BLK |
| 0.034" (0.9mm) | 0.020" (0.5mm) | 0.005" (0.1mm) | Clear | X2-034-CLR |
| 0.050" (1.3mm) | 0.035" (0.9mm) | 0.002" (.05mm) | Clear | U2-055-CLR |
| 0.066" (1.7mm) | 0.035" (0.9mm) | 0.003" (.07mm) | Clear | U2-070-CLR |
| 0.066" (1.7mm) | 0.040" (1.0mm) | 0.009" (.2mm) | Clear | X2-070-CLR |
| 0.100" (2.5mm) | 0.060" (1.5mm) | 0.003" (.07mm) | Clear | U2-110-CLR |
| 0.150" (3.8mm) | 0.090" (2.3mm) | 0.004" (.1mm) | Black | U2-170-BLK |

Immediately Available: 60" straight lengths. Continuous lengths and cut pieces to order.

'4:1' Shrink IRIDIUM™ Tubing: Standard Sizes

| Expanded (min) | ID Recovered ID (max) | Wall Thickness (supplied/ recovered) | Color | Product ID |
|----------------|-----------------------|--------------------------------------|-------|------------|
| 0.040" (1mm) | 0.010" (0.25mm) | 0.0005"/0.002" (0.05mm) | Clear | U4-040-CLR |
| 0.040" (1mm) | 0.010" (0.25mm) | 0.001" /0.005" (0.1mm) | Clear | X4-040-CLR |
| 0.080" (2mm) | 0.020" (0.5mm) | 0.001" /0.005" (0.1mm) | Clear | X4-080-CLR |
| 0.080" (2mm) | 0.020" (0.5mm) | 0.001" /0.005" (0.1mm) | Black | X4-080-BLK |
| 0.140" (3.6mm) | 0.035" (0.9mm) | 0.001" /0.003" (0.07mm) | Clear | U4-140-CLR |
| 0.140" (3.6mm) | 0.035" (0.9mm) | 0.002" /0.009" (0.2mm) | Clear | X4-140-CLR |
| 0.240" (6.1mm) | 0.060" (1.5mm) | 0.001" /0.003" (0.07mm) | Clear | U4-240-CLR |
| 0.360" (9.2mm) | 0.090" (2.3mm) | 0.001" /0.004" (0.1mm) | Black | U4-360-BLK |

Please note the extremely thin walls of these 4:1 products as supplied. Please discuss your handling and usage needs with Customer Service. **Immediately Available:** 12" straight lengths. Longer, continuous lengths and cut pieces to order.

Additional Products

We offer sizes, colors, durometers to fit your engineering requirements. Contact customer service at (800) 337-0901 or visit www.cobaltpolymers.com to order, get samples or for technical information

Elemental Solutions in Tubing™

(800) 337-0901
sales@cobaltpolymers.com
www.cobaltpolymers.com

Immediately Available

2:1 - 60" pieces. 4:1 - 12" pieces. Longer lengths and cut pieces to order.

R&D Package

Any 6 pieces from stock for \$85.00.

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Tubing Properties*

| | |
|-----------------------|--|
| Dielectric Strength | 1,000 volts / mil |
| Flexural Modulus | 135,000 psi |
| Recovery Temperature | 220 F° |
| Tubing Certifications | Gamma, E-Beam, ETO stable Test for autoclave or repeat use. |

Product Characteristics

| | |
|--|------------------------------------|
| High Compressive Strength | Excellent Cocentricity |
| Rapid Recovery | Thinnest Flexible Tubing Available |
| Controlled Longitudinal Shrinkage (<10%) | Good Moisture / Vapor Barrier |

Typical Applications

| | | |
|-----------------|---------------|--------------------------|
| Insulate | Encapsulate | Reinforce |
| Balloon Bond | Strain Relief | Thermoplastic Welding |
| Wire Insulation | Probe Coating | Cushion Metallic Surface |

Manufacturing Capabilities

Custom Sizes, Wall Thickness, Color and Resins
Precision Cut Lengths
Scoring and Slit Tubing
Custom Expansion of Customer-supplied Tubing
Continuous Re-Sizing ("necking") of Thermoplastic Tubing

Cobalt Polymers manufactures precision polymer tubing for medical device and high technology applications with core strengths in Polymer Chemistry, Radiation Science and process Engineering.

Elemental Solutions in Tubing



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