



Applications

All Medical Devices

Vesta's ExtruMed™ precision extrusion solutions optimize the clinical outcome of thin wall polyolefin heat shrink tubing for the medical device industry.

Function

Protective Covers, Reflowing Sleeves, Tube Splicing/Joining, Metal Wire, Tube and Rod Insulation, Catheter Strain Reliefs, Manufacturing Aids

Vesta's heat shrink tubing possesses excellent concentricity, flexibility and thin-wall construction. High shrink ratios allow for ease of use, excellent fit, compliance and thin recovered walls.

Description

Heat Shrink Tubing Will Recover to a Smaller Diameter When Exposed to Heat

Vesta understands the nuances of working with heat shrink tubing and works to define the minimum expanded inner diameter, the maximum recovered inner diameter, recovered length requirement and the recovered wall thickness to ensure optimal performance.

Technology

Extrusion, Irradiation and Expansion Process

Vesta uses a three-step process to manufacture heat shrink tubing: extrusion, crosslinking and expansion. We use materials such as LDPE, MDPE and LLDPE (low-, medium- and linear low-density polyethylene), manage and control crosslinking with our preferred outsourced partner, and conduct the expansion process using our custom-designed expansion equipment.

Competency

Ultra-Thin Walls and High Expansion Ratios

Vesta's experienced staff ensures high concentricity, proper radiation dosages and a tight expansion process to manufacture the most challenging heat shrink tubing. Our expertise includes:

- Expanded ID 0.01" – 0.3" (0.25 mm – 7.62 mm)
- Expanded wall thicknesses as thin as 0.0003" (0.00762 mm)
- Shrink ratios as high as 10:1
- Rapid and low recovery temperatures
- Length: 0.5" – 60" (1.2 cm – 150 cm), continuous length available for some sizes
- Colors: clear or customer-specified

Molding | Extrusion | Assembly

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ISO 13485:2003 Certified