



HEAT-SHRINK TUBING

APPLICATIONS

All Medical Devices

ExtruMed manufactures thin-wall polyolefin, heat-shrink tubing with high-shrink ratios for a variety of medical device applications.

FUNCTION

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

ExtruMed's heat-shrink tubing possesses excellent concentricity, flexibility and thin-wall construction. The high-shrink ratios allow for ease of use, excellent fit and compliance, and thin recovered walls. These benefits all are important especially when using the heat-shrink as a manufacturing aid or to keep the final outer diameter as small as possible.

DESCRIPTION

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

When designing heat-shrink tubing it is important to define the minimum expanded inner diameter, the maximum recovered inner diameter and the recovered wall thickness. It also may be important to define the recovered length requirement, as the tubing will shrink both radially and longitudinally when exposed to heat.

TECHNOLOGY

Extrusion, Irradiation and Expansion Process

The manufacturing of heat shrink is a three-step process that includes extrusion, cross-linking and expansion. ExtruMed will design and manufacture the extruded tubing, outsource the cross-linking and then conduct the expansion process using our custom-designed expansion equipment. Typical materials used for polyolefin heat-shrink tubing are LDPE, MDPE and LLDPE (low, medium and linear-low density polyethylene).



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COMPETENCY

Ultra-Thin Walls, High Expansion Ratios

Our team of experienced precision tubing technicians understands the importance of each step of the heat shrink manufacturing process. Our technicians are able to successfully manufacture the most challenging heat-shrink tubing designs by ensuring high concentricity, proper radiation dosages and tight expansion process control. Our heat-shrink properties include:

- Expanded ID 0.010" – 0.300" (0.25 mm – 7.62 mm)
- Wall Thicknesses as thin as 0.00025" (0.0063 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

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