

308-31221



**Article Number:** 308-31221

**Heat Shrink Tubing, HIS-3-Bag, 3:1, 1/2", 12.7/4.0 dia., Polyolefin, Clear, 10/pkg**



## Base Data

**Local Order Number** 308-31221

**Type** HIS-3-BAG 12/4 CL

**Color** Clear (CL)

- Features and Benefits**
- Thin wall, flexible 3 to 1 shrink ratio material accommodates a wide range of component shapes and diameters.
  - Meets UL224 VW-1 specifications, making it ideal for high heat applications (excludes clear tubing).
  - Polyolefin material provides excellent insulation and mechanical strength with good resistance to solvents, oils and fuels.
  - Available in bulk reels, sticks and convenience bags (HIS-3 bags), for small to large volume applications.

**Product Description** TFN31 series heat shrink tubing features a flexible, thin wall and highly flame retardant polyolefin material with a higher operating temperature range than general-use heat shrink tubing. and offers good resistance to solvents, oils and fuels. The 3 to 1 shrink ratio accommodates a variety of component shapes and sizes. TFN31 tubing is available in bulk reels, sticks and convenience bags (HIS-3 bags), for projects of all sizes.

**Marking Text** no

**Shrink Ratio** 3:1

**Variant** Thin-Wall

**Short Description** Heat Shrink Tubing, HIS-3-Bag, 3:1, 1/2", 12.7/4.0 dia., Polyolefin, Clear, 10/pkg

**With inner glue (Yes/No) ETIM** No

## Product Dimensions

**Length L (metric)** 200 mm

**Length L3 (imperial)** 6.0 "

**Length L3 (metric)** 152.4 mm

**Wall Thickness WT (imperial)** 0.031 "

**Wall Thickness WT (metric)** .80 mm

**Recovered Diameter D (metric)** 4.0 mm

**Recovered Diameter D (imperial)** 0.157 "

**Supplied Diameter D (imperial)** 0.5 "

**Supplied Diameter D (metric)** 12.7 mm

## Logistics and Packaging

**Quantity per** bag

**Package Quantity (imperial)** 10

**Package Quantity** 10 Pieces

## Material and Specifications

**Material** Polyolefin, cross-linked (PO-X)

<b>Material Shortcut</b>	PO-X
<b>Dielectric Strength (metric)</b>	20 kV/mm according to ASTM D 150
<b>Elongation at break</b>	800% nach ASTM D2671
<b>Flammability</b>	UL224 VW-1 (except clear)
<b>Halogenfree</b>	No
<b>Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67 °F to +275 °F (-55 °C to +135 °C)
<b>ROHS Conformity</b>	Yes
<b>Certification / Specification</b>	SAE - AMS - DTL-23053/5 Class 2 (clear) SAE - AMS - DTL-23053/5 Class 1 and 3 UL224 125 °C 600V VW-1
<b>Tensile Strength (MPa)</b>	14 MPa
<b>UL Listed (US and Canada)</b>	Yes
<b>UL Recognized (US and Canada)</b>	Yes
<b>Volume Resistance (Ohm cm)</b>	10 <sup>11</sup> Ω cm (ASTM D 876)