

## Specification Sheet

Part Number: 333-41503

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.



Heat Shrink Tubing, Bulk Reel, 3:1 Shrink Ratio, 1/2", 12.7/4.0 Dia, PO, Black, 300 ft/reel

**Article Number** 333-41503

**Type** TFN31 12/4

**Color** Black (BK)

**Quantity Per** reel

**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.

<b>Short Description</b>	Heat Shrink Tubing, Bulk Reel, 3:1 Shrink Ratio, 1/2", 12.7/4.0 Dia, PO, Black, 300 ft/reel
<b>Global Part Name</b>	TFN31 12/4-PO-X-BK
<b>Length L (Imperial)</b>	300.0
<b>Length L (Metric)</b>	91.4
<b>Variant</b>	Thin-Wall
<b>Nominal Diameter (Imperial)</b>	0.5
<b>Nominal Diameter (Metric)</b>	12
<b>Wall Thickness WT (Imperial)</b>	.031
<b>Wall Thickness WT (Metric)</b>	0.80
<b>Material</b>	Polyolefin, cross-linked (PO-X)
<b>Material Shortcut</b>	PO-X
<b>Flammability</b>	UL 224 VW-1
<b>Halogen Free</b>	No
<b>Operating Temperature</b>	-58°F to +275°F (-50°C to +135°C)

<b>Reach Compliant (Article 33)</b>	Yes
<b>ROHS Compliant</b>	Yes
<b>Certification/Specification</b>	CSA   C22.2 no. 198.1-06 UL   ANSI/UL 224
<b>UL Recognized (US)</b>	Yes
<b>UL Recognized (US and Canada)</b>	Yes
<b>Package Quantity (Imperial)</b>	300
<b>Package Quantity (Metric)</b>	91.44
<b>Customs Number</b>	3926909988