

Specification Sheet

Part Number: 333-41509



Heat Shrink Tubing, 4' Long Stick, 3:1 Shrink Ratio, 3/16", 4.8/1.5 Dia, PO, Black, 20/pkg

Article Number	333-41509
Type	TFN31-ST-4.5/1.5
Color	Black (BK)
Features & Benefits	<ul style="list-style-type: none"><li>• Thin wall, flexible 3 to 1 shrink ratio material accommodates a wide range of component shapes and diameters.</li><li>• Meets UL224 VW-1 specifications, making it ideal for high heat applications (excludes clear tubing).</li><li>• Polyolefin material provides excellent insulation and mechanical strength with good resistance to solvents, oils and fuels.</li><li>• Available in bulk reels, sticks and convenience bags (HIS-3 bags), for small to large volume applications.</li></ul>
Quantity Per	lengths

<b>Product Description</b>	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, 4' Long Stick, 3:1 Shrink Ratio, 3/16", 4.8/1.5 Dia, PO, Black, 20/pkg
<b>Global Part Name</b>	TFN31-ST-4.5/1.5-PO-X-BK
<b>Length L (Metric)</b>	1.22
<b>Variant</b>	Thin-Wall
<b>Nominal Diameter (Imperial)</b>	0.19
<b>Nominal Diameter (Metric)</b>	4.5
<b>Wall Thickness WT (Imperial)</b>	.024
<b>Wall Thickness WT (Metric)</b>	0.60
<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 (Metric)</b>	-58°F to +275°F (-50°C to +135°C)
<b>Reach Complaint(Article 33)</b>	Yes
<b>ROHS Complaint</b>	Yes
<b>Certification/Specification WEB</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>	20
<b>Package Quantity (Metric)</b>	20
<b>Customs Number</b>	3926909988