HellermannTyton

Specification Sheet

Part Number: 333-41509

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, 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)
Quantity Per	lengths
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.

Short Description	Heat Shrink Tubing, 4' Long Stick, 3:1 Shrink Ratio, 3/16", 4.8/1.5 Dia, PO, Black, 20/pkg
Global Part Name	TFN31-ST-4.5/1.5-PO-X-BK
Length L (Metric)	1.22
Variant	Thin-Wall
Nominal Diameter (Imperial)	0.19
Nominal Diameter (Metric)	4.5
Wall Thickness WT (Imperial)	.024
Wall Thickness WT (Metric)	0.60
Material	Polyolefin, cross-linked (PO-X)
Material Shortcut	PO-X
Flammability	UL 224 VW-1
Halogen Free	No
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Reach Compliant (Article 33)	Yes

ROHS Compliant   Yes

Certification/Specification   CSA | C22.2 no. 198.1-06 UL | ANSI/UL 224

UL Recognized (US)   Yes

UL Recognized (US and Canada)   Yes

Package Quantity (Imperial)   20

Package Quantity (Metric)   20

Customs Number   3926909988