

## Specification Sheet

Part Number: 308-31220



Heat Shrink Tubing, HIS-3-Bag, 3:1 Shrink Ratio, 1/2", 12.7/4.0 Dia, PO, Black, 10/pkg

Article Number	308-31220
Type	HIS-3-BAG 12/4 BK
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	bag

**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, HIS-3-Bag, 3:1 Shrink Ratio, 1/2", 12.7/4.0 Dia, PO, Black, 10/pkg

**Global Part Name**

HIS-3-BAG 12/4 BK-PO-X-BK

**Length L (Metric)**

200

**Variant**

Thin-Wall

**Nominal Diameter (Imperial)**

1/2

**Nominal Diameter (Metric)**

12.7

**Wall Thickness WT (Imperial)**

.031

**Wall Thickness WT (Metric)**

.80

**Material**

Polyolefin, cross-linked (PO-X)

**Material Shortcut**

PO-X

**Flammability**

UL 224 VW-1 (except clear)

**Halogen free**

No

<b>Operating Temperature (Metric)</b>	-67°F to +275°F (-55°C to +135°C)
<b>Reach Complaint(Article 33)</b>	Yes
<b>ROHS Complaint</b>	Yes
<b>Certification/Specification WEB</b>	SAE - AMS - DTL-23053/5 Class 2 (clear) SAE - AMS - DTL-23053/5 Class 1 and 3 UL   ANSI/UL 224
<b>UL Recognized (US and Canada)</b>	Yes
<b>Package Quantity(Imperial)</b>	10
<b>Package Quantity (Metric)</b>	10
<b>Customs Number</b>	3926909987