

## ZH3 thermal transfer printable heatshrink tubing

The ZH3 heatshrink tubing are made of halogen free, flame retardant, heat shrinkable polyolefin tubing with ideal printability properties for identification purposes. The compound of the tubing is excluded for halogens and offers excellent fire safety characteristics combined with minimal smoke emission.

### Physical

Properties	Test Method	Typical value
Tensile strength	ASTM D 638	13 N/mm <sup>2</sup>
Elongation at break	ASTM D 638	≥ 400%
Longitudinal change	ASTM D 2671	-7 %
Water absorption	ASTM D 792	1.34 g/cm <sup>3</sup>
Specific gravity	ASTM D 882	65 MPa

### Electrical

Properties	Test Method	Typical value
Dielectric strength	UL224	≥ 37 kV/mm
Volume resistivity	ASTM D 876	3,1 x 10 <sup>14</sup> Ω cm
Voltage rating	UL224	600V
Dielectric Voltage Withstand (2,5kVx60s)	UL224	Pass, no breakdown

### Colors

Yellow and white.  
Blue, black, red, orange and light green.  
Other colors available on request.

### Material

Cross-linked polyolefin.  
Shrink ratio 3:1

### Operating temperature

-55°C to +135°C.

### Min. shrink temperature

90°C.

### Specifications

CSA C 22.2 No. 198.1: 125°C 600V VW-1, SAE-AMS-DTL-23053/5 class 1&3 (except sizes / LC), UL 224 125°C 600V VW-1 (File No. E48762).

### Storage

Cool and dry in original packaging. Recommended temperature at +10°C to +25°C and 45-55% relative humidity. Use within 3 years from date of manufacture.

### Notes

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## Chemical

Properties	Test method	Typical value
Fungus resistance	ASTM G 21	Pass, no growth
Fluid resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	7,25 – 14 MPa

## Thermal

Properties	Test method	Typical value
Heat shock (250°C x 4h)	SAE-AMS-DTL-23053	No dripping, cracking or flowing, pass
Elongation after heat ageing (158°C x 4h)	SAE-AMS-DTL-23053	≥ 400%
Copper corrosion (158°C x 168h)	SAE-AMS-DTL-23053	Pass
Stability against copper (158°C x 168h)	SAE-AMS-DTL-23053	Pass
Low temperature flexibility (-55°C x 4h)	SAE-AMS-DTL-23053	No cracking
Flammability	UL224	VW-1, pass

## Applications

Common uses include marking, insulation, wire bundling and mechanical protection.

## Printers recommended

CAB A4+ 300dpi printer



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