



# HellermannTyton

DATA SHEET

B7: Heat-Shrinkable Material

## DESCRIPTION

A heat-shrinkable semi-flexible cross-linked flame retarded modified polyolefin material with an operating temperature range of -55°C to +135°C.

## APPLICATION

Military and general high performance harnessing.

## PROPERTIES

Properties	Typical Results	Test Method
Tensile Strength	13 MPa	IEC 540
Elongation	500%	IEC 540
Dielectric Strength	14 kV/mm	ASTM D2671
Water Absorption at 50°C	< 0.1%	ASTM D570
Solvent Resistance		
Saline	Excellent	Def. Stan. 59-97
Hydraulic Fluid	Very Good	
Lubricating Oil	Very Good	
Aviation Fuel	Good	
Automotive Fuel	Good	
Diesel Fuel	Good	
De-icing Fluid	Excellent	
Flammability	<25mm	ASTM D635
Thermal Ageing (168 hours / 175°C)	350%	IEC 540
Thermal Shock (4 hours / 225°C)	Pass	ASTM D2671
Copper Corrosion at 175°C	Pass	Def. Stan. 59-97/3
Low Temperature Flexibility (-55°C)	Pass	ASTM D2671 Method C
Standard Colour	Black	
Shelf Life	5 years	
Minimum Shrink Temperature	135°C	

## STANDARDS

Approved to: Def. Stan 59-97 Issue 3 Type DA

Conforms to: MIL-I-81765/1 Type 1

Issue 8

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## DATA SHEET

W, W1, W2: Hot Melt Adhesive

### DESCRIPTION

A hot melt adhesive with an operating temperature range of -50°C to +80°C. The adhesive is supplied pre-lined in heatshrink shapes as follows

- W – complete band
- W1 – low volume spiral
- W2 – standard spiral

### APPLICATION

Good general-purpose adhesive, bonds to most materials and has good resistance to water ingress.

### PROPERTIES

Properties	Typical Results	Test Method
Softening Point	95°C	ASTM E28
Cure Time	N/A	
Peel Strength for:		
XLPE / Metal	80 N/25mm	VG 95-343 Pt 14
XLPE / XLPE	250 N/25mm	
PVC / PVC	60 N/25mm	
Lap Shear Strength for:		
XLPE / Metal	200 N	VG 95-343 Pt 15 (12.5mm x 25mm)
XLPE / XLPE	225 N	
PVC / PVC	70 N	
Water Absorption at 25°C	< 0.2%	ASTM D570
Solvent Resistance	Fair under splash conditions.	
Dynamic Shear at 23°C	365 N	VG 95-343 Pt 14

### STANDARDS

Approved to: N/A

Conforms to: N/A

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