TEXIT Deutschland GmbH
Gueterstraße 2, DE-64807 Dieburg

Technical Data Sheet

Issue: 04/2021/v05

Product-Line: HTX-S3
Material: Polyolefin, shrink ratio 3:1
TEXIT-Material-Code: TMC-1045

Material data:

Description	The HTX-S3 3:1 Heat Shrinkable Wire Markers are made of a very flexible, highly flame retardant, high grade polyolefin tubing. SAE-AMS-DTL, UL 224 and CSA recognized. Meets the requirements of a wide range of industrial and high-tech standards. Very versatile through excellent balance of chemical, electrical and mechanical properties.
Standard Colours	Yellow, white
Material	Crosslinked polyolefin, shrink ratio 3:1
Operating temperature	-55°C to + 135°C
Minimum shrink temperature	90°C
Carrier liner **(valid for organized version)**	White, non-coated, medium range thermal sensitive paper cardstock Thickness: 185 ± 10 µm Width: 109 mm ± 0,5 mm
Adhesive backing **(valid for organized version)**	Clear, polyethylene film coated with an acrylic-based pressure sensitive adhesive Thickness: 0,10 mm Width: 72/85 mm
Storage	Store in original packaging Recommended temperature at +10°C to +25°C and 45-55% relative humidity Use within 4 years from date of manufacture
Applications	Common uses include marking, insulation, Wire bundling and mechanical protection

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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)
RoHS-compliant	Yes

Physical Properties		
Properties	**Test Method**	**Typical value**
Tensile strength	ASTM D 638	13 N/mm^2
Elongation at break	ASTM D 638	≥ 400%
Longitudinal change	ASTM D 2671	- 7%
Specific gravity	ASTM D 792	1,34 g/cm^3
Secant Modulus	ASTM D 882	65 MPa

Electrical Properties		
Properties	**Test Method**	**Typical value**
Dielectric strength	UL 224	≥ 37 kV/mm
Volume resistivity	ASTM D 876	3,1 x 10^{14} Ω cm
Voltage rating	UL 224	600 V
Dielectric Voltage Withstand (2,5 kV x60s)	UL 224	Pass, no breakdown

Chemical Properties		
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

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Thermal Properties		
Properties	**Test Method**	**Typical value**
Heat shock (250°C x 4h)	SAE-AMS-DTL-23053	No dripping, cracking or flowing, pass
Elongation after heat aging (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 + 168h)	SAE-AMS-DTL-23053	Pass
Low temperature flexiblility (-55°C + 4h)	SAE-AMS-DTL-23053	No cracking
Flammability	UL 224	VW-1, pass

Printer and ribbons recommended	
Printer	**Ribbons**
- TEXIT DRU-TX4/300 - TEXIT-DRU-TX4M/300	- FTI-X-110x300-BK

Dimensions				
Size, Inches	**Size, mm**	**Minimum ID as supplied (mm)**	**Maximum ID, recovered**	**TEXIT Order Codes**
1/8	3,0	3,0	1,0	HTX-S3-030...
3/16	4,8	4,8	1,6	HTX-S3-048...
1/4	6,0	6,0	2,0	HTX-S3-060...
3/8	9,0	9,0	3,0	HTX-S3-090...
1/2	12,0	12,0	4,0	HTX-S3-120...
3/4	18,0	18,0	6,0	HTX-S3-180...
1	24,0	24,0	8,0	HTX-S3-240...
1 ½	39,0	39,0	13,0	HTX-S3-390...

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