

Technical Data Sheet

Product-Line: HTX-C3
Material: Polyolefin, shrink ratio 3:1
Texit-Material-Code: TMC-1044
Issue: 07/2024/v06

Material data:

Description	The HTX-C3 3:1 Heat Shrinkable Wire Markers are made of a polyolefin tubin, which covers a wide range of wire diameters. It meets not only a wide range of industrial specifications, but also the requirements of UL 224 and it is self extinguishing. Diameters are available in real imperial sizes.
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
Specifications	- SAE-AMS-DTL-23053/5 class 1 - UL 224, 125°C - UL cert. E228117
RoHS-compliant	Yes

Physical Properties		
Properties	Reference	Passed requirements
Tensile strength	EN 60684-3-209	> 10.3 MPa
Elongation at break	EN 60684-3-209	> 200%
Longitudinal change	EN 60684-3-209	From -10% to +5%
Specific gravity	ASTM D 792	1,4 g/cm ³
Water absorption	ASTM D 570	0,20 %

Electrical Properties		
Properties	Reference	Passed requirements
Dielectric strength	ASTM D 2671	20 kV/mm
Volume resistivity	UL 224	10 ¹⁴ Ω cm
Voltage rating	UL 224 / EN 60684-3-209	600 V
Dielectric Voltage Withstand (2,5 kV x60s)	UL 224 / EN 60684-3-209	Pass, no breakdown

Chemical Properties		
Properties	Reference	Passed requirements
Fungus resistance	ASTM DTL-7444	Pass, no growth
Chemical resistance	ASTM DTL-23053/3	good

Thermal Properties		
Properties	Reference	Passed requirements
Heat shock (250°C x 4h)	EN 60684-3-209	No signs of dripping and cracking when cooled and wound 360° around a mandrel
Heat aging	EN 60684-3-209	Tensile strength: > 7.3 MPa Elongation at break: > 100%
Corrosion resistance	EN 60684-2-32	No chemical interaction
Operation temperature		-55°C to + 135°C
Bending at low temperature	EN 60684-2-14	No visible cracks, detaching of coating or delamination
Flammability	UL 224	Passed
Flame propagation	EN 60684-3-209	No burning or charring of indicator flag and no ignition of cotton
Restricted shrinkage	EN 60684-3-209	No cracking or splitting

UV – stability (1.000h; Temp: 50-60°C; Cycle: 8h light - 4h condensation; UV wavelength: 280-400 nm)		
Properties	Reference	Pass requirements
Tensile strength	ASTM D 2671	Pass
Elongation at break	ASTM D 2671	Pass
Printing resistance	SAE AS81531	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	TEXT Order Codes
1/8	3,2	3,2	1,0	HTX-C3-032...
3/16	4,8	4,8	1,6	HTX-C3-048...
1/4	6,4	6,4	2,0	HTX-C3-064...
3/8	9,5	9,5	3,0	HTX-C3-095...
1/2	12,7	12,7	4,0	HTX-C3-127...
3/4	19,0	19,0	6,0	HTX-C3-190...
1	25,4	25,4	8,0	HTX-C3-254...
1 1/2	38,1	38,1	13,0	HTX-C3-381...