

Issue: 04/2024/v14

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## **Technical Data Sheet**

Product-Line: HTX-S0, HTX-RS0, HTX-PD0, HTX-PS0, HTX-PN0, HTX-D0, HTX-TD0, HTX-PC0

Material: Polyolefin 0-halogen, shrink ratio 2:1

TEXIT-Material-Code: TMC-1046

### Material data:

Description	Halogen free, flame retardant, heat shrinkable polyolefin tubing with the highest 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.			
Standard Colours	Yellow, white			
Available Colours	Light blue, light red, black, orange, light green			
Material	Polyolefin, 0-halogen, shrink ratio: 2:1 according UL224			
Operating temperature	-55°C to +125°C			
Minimum shrink temperature	> 90°C			
Carrier liner (valid for organized version)	White, non-coated, medium range thermal sensitive paper cardstock Thickness: $185 \pm 10 \ \mu m$ Width: $109 \ mm \pm 1,0 \ mm$			
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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#### **Technical Data Sheet**

Page 2 of 4

TMC-1046/Polyolefin/S0

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Specifications	<ul> <li>Adherence: MIL-M 81531 AS (SAE-AS81531-1998), point 4.6.2 Passed with following black ribbons: = &gt; FTA-R-ribbon</li> <li>Resistance to solvents: DIN EN 50 343, part 7.6 and annex H* Passed with following black ribbons: = &gt; FTA-R-ribbon</li> <li>MIL-STD202G test method 215 2002 (recovered condition), MIL-M81531/AS SAE-AS81531-1998 clause 3.4.3 (recovered condition) Passed with following black ribbons: = &gt; FTA-R-ribbon</li> <li>Smoke density, passed according to: CEN/TS 45545-2: 2009 (optical density) NF X 10-702 (refer to NF F 16-101) ASTM 662 and BS 6853 D 8.3</li> <li>Toxit Gas Emission, passed according to: BS EN 6853 Ap. B1 NF X 70-100 (refer to NF F 16-101) SMP 800C</li> <li>Ignitability to direct impingement of flame passed according EN ISO 11925-2:2010</li> <li>Burning behaviour passed according CEN/TS 45545-2: 2009 (oxygen index)</li> <li>Requirements for fire behaviour passed according CEN/TS 45545-2: 2009 (materials and components) UNI CEI 11170-3 Ed. 2005 + FA 2007 acceptance criteria equipment for materials and electrical and electronic components for all Hazard levels until LR4 included</li> </ul>
RoHS-compliant	Yes

<sup>\*</sup>Except of 2.2.3 Fuel resistance can not be achieved. Note: Resistance to liquid fuel is only required if the markers could be permanently contaminated by diesel oil.

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Page 3 of 4

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Physical Properties			
Properties	Test Method	Typical value	
Tensile strength	ASTM D 638	13 N/mm <sup>2</sup>	
Elongation at break	ASTM D 638	200 %	
Longitudinal change	EN 60684-2-9	≤ +5%, ≤ -10%	
Water absorption	ASTM D 570	≤ 0,15%	
Specific gravity	ASTM D 792	1,4 g/cm <sup>3</sup>	

Electrical Properties			
Properties	Test Method	Typical value	
Dielectric strength	ASTM D 2671	20 kV/mm <sup>2</sup>	
Volume resistivity	ASTM D 257	$10^{14}\Omega$ cm	

Chemical Properties			
Properties	Test Method	Typical value	
Fungus resistance	AMS-DTL-7444	Inert, no growth	
Chemical resistance	EN 60684-2-36	Good: pass	
Copper corrosion	EN 60684-2-33	No chemical interaction: pass	
Oxygen index	ASTM D 2863	36%	

## **Printer recommended**

- TEXIT DRU-TX4/300
- TEXIT-DRU-TX4M/300
- TEXIT-DRU-TD4M/300

### Ribbon for print-specifications EN 50 343

- FTA-R-100x300-BK
- FTA-R-060x300-BK

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Page 4 of 4

TMC-1046/Polyolefin/S0

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Thermal Properties			
Properties	Test Method	Typical value	
Heat shock 4h at 175°C	EN 60684-2-6	Pass Tensile strength and Elongation at break	
Heat aging 168 h at 150°C	ASTM D 638	Elongation 100%	
Low temperature bending / flexibility (1h at -55°C)	EN 60684-2-9	No cracking, break detachment of coating	
Flammability	ASTM D 2671 DIN 5510-2	Pass » flame retardant Classified SR2 ST2	

Dimensions	Dimensions			
Size, Inches	Size, mm	Minimum ID as supplied	Maximum ID, recovered	Recovered wall thickness, mm
3/32	2,4	2,4	1,2	0,43 - 0,60
1/8	3,2	3,2	1,6	0,55 - 0,72
3/16	4,8	4,8	2,4	0,55 - 0,72
1/4	6,4	6,4	3,2	0,65 - 0,80
3/8	9,5	9,5	4,8	0,65 - 0,75
1/2	12,7	12,7	6,4	0,65 - 0,75
3/4	19,0	19,0	9,5	0,65 - 0,75
1	25,4	25,4	12,7	0,70 - 0,85
1 1/4	31,8	31,8	16,0	0,75 - 0,90
1 ½	38,1	38,1	19,1	0,85 - 1,00