DR thermal transfer printable heatshrink tubing

The DR printable heatshrink are made of irradiated, flame retardant, semi-rigid and diesel oil resistant heat shrinkable modified polyolefin tubing. Especially suitable for railways and complies with SNCF requirements.

Physical

Properties	Test Method	Typical value
Tensile strength, unaged	MIL-DTL-23053E ISO37, 500mm/min 168h at 175°C	16.5 N/mm²
Tensile strength, aged	MIL-DTL-23053E ISO37, 500mm/min 168h at 175°C	17.2 N/mm²
Elongation at break	MIL-DTL-23053E ISO37, 500mm/min 168h at 175°C	325%
Longitudinal change	MIL-DTL-23053E	≤+5%,≤-10%
Water absorption	ASTM D 570	≤0.42%
Specific gravity	ASTM D 792	1.4 g/cm³

Electrical

Properties	Test Method	Typical value
Dielectric strength	MIL-DTL-23053E	27.6 kV/mm²
Volume resistivity	IEC 93	1.82 x 10^{14} Ω cm

Colors

Available in yellow, white, red and blue.
Other colors on request.

Material

Extruded, cross-linked, modified polyolefin.
Shrink ratio 3:1

Operating temperature

-55°C up to +135°C.

Min. recovery temperature: 120°C.

Specifications

Adherence: MIL81531 (SAE-AS81531-1998 Clause 3.4.2/4.6.2). Passed with following black ribbon: THERMOMARK RIBBON X-CO-300/100.

Resistance to solvents: MIL-STD-202G test method 215(2002). (MIL81531/SAE-AS81531-1998 Clause 3.4.3.) Passed with following black ribbon: THERMOMARK RIBBON X-CO-300/100.

Compliance to SAE-AMS-DTL-23053/6 class 1, NF F 00608 cat. A & H, UL224

Storage

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

Chemical

Properties	Test method	Typical value
Fungus resistance	AMS-DTL-7444	Inert, no growth
Chemical resistance	MIL-DTL-23053E	Good
Cooper corrosion	ASTM D 2671B	No corrosion
Oxygen index	ASTM D 2863	36%
IRM 902# oil (50°C x 72h)	MIL-DTL-23053E Tensile strength ≥ 11.1MPa Ultimate elongation ≥ 100%	16.2N/mm² 540%
Diesel oil 903# (70°C x 168h)	MIL-DTL-23053E Tensile strength ≥ 11.1MPa Ultimate elongation ≥ 100%	12.3N/mm² 535%
Petrol oil 97# (24°C x 24h)	MIL-DTL-23053E Tensile strength ≥ 11.1MPa Ultimate elongation ≥ 100%	13.7N/mm² 550%
Hydraulic fluid MIL-PRF-5606 (24°C x 24H)	MIL-DTL-23053E Tensile strength ≥ 11.1MPa Ultimate elongation ≥ 100%	17.2N/mm² 523%

Thermal

Properties	Test Method	Typical value
Heat shock h hours at 175°C	ASTM D 2671C	No dripping, cracking or flowing
Heat aging 168 hours at 150°C	ASTM D 638	Elongation 100%
Low temperature flexibility -30°C	ASTM D 2671C	No cracking
Flammability	ASTM D 2671C	UL224 VW-1

RoHS 2 2011/65/EU

Notes

This information and data is believed to be accurate and reliable. Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of this date, Link Solutions makes no representations as to the completeness or accuracy thereof. We place at your disposal the technical information necessary for the correct use of our products. As conditions and methods of use are beyond our control, that the person receiving the same will make their own determination as to the suitability for their purpose.
We reserve the right to modify characteristics with the aim of improving the product and adapting it to the requirements of the market

Storage

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Use within 3 years from date of manufacture.

Printer recommended

CAB A4+/300 printer
CAB A4+M/300 printer

Applications

Common uses include marking, insulation, wire bundling and