

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT500P/E

Flat and halogen-free shrink tubing with ideal thermal transfer printing properties. Designed for general use in metro, rail, marine and offshore.

Operating temperature:	- 55° C to + 105° C
Shrinking temperature:	> 90° C
Shrink ratio:	2 : 1
Standard color:	White, yellow, black Blue, red, green and pale yellow on request
Approvals/Standards:	Railway normative EN 45545-2 Fire protection of railway vehicles LUL S1085 Att. B.5 Fire Safety Performance of Materials NF F16-101 Railway Rolling Stock Fire Behavior



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT500P/E-240	2.40	1.20	0.51
FT500P/E-320	3.20	1.60	0.63
FT500P/E-480	4.80	2.40	0.63
FT500P/E-640	6.40	3.20	0.72
FT500P/E-950	9.50	4.80	0.70
FT500P/E-1270	12.70	6.40	0.70
FT500P/E-1900	19.10	9.50	0.77
FT500P/E-2540	25.40	12.70	0.92
FT500P/E-3800	38.10	19.10	0.97
FT500P/E-5100	50.80	25.40	0.97

Packaging: On Spools.
Cut and printed lengths on request.

Processing note: Care for clean and accurate cutting edge. Start shrinkage on the end.
Pre-heat metal body.

GREMCO GmbH · Sterzinger Str. 6 · D-86165 Augsburg · T +49.821.272 63-0 · F +49.821.272.63-44 · info@gremco.de · www.gremco.de •
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Attributes	Testing	Value
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Print execution

Adherence test	SAE AS S5942 4.1	Printing readable
Fluid resistance:	MIL-STD-202H method 215K	Pass
Isopropyl Alcohol / Mineral Spirits Blend	10 rubs (X3)	Printing readable
Terpene Defluxer	10 rubs (X3)	Printing readable
H ₂ O / PGME / Monoethanolamine	10 rubs (X3)	Printing readable

Mechanical

Tensile strength	ASTM D 638	10 N/mm ²
Ultimate Elongation	ASTM D 638	200 %
Longitudinal change	ASTM D 2671	-10% to +5%
Specific density	ASTM D 792	1.40

Thermal

Low temperature flexibility (-55°C)	IEC 60684-2	No break, no crack, no detachment of coating or delamination
Long term aging (168h x 150°C)	ASTM D 638	Elongation ≥ 100%
Heat Shock (4h x 175°C)	ASTM D 2671	No cracking, flowing or dripping
Flammability	ASTM D 635-HB	Pass
Smoke index	NF F16-101	Smoke class F1
Optical smoke density (D _m)	ASTM DE 662	Flaming mode 41 Non-flaming mode 111

Electrical

Dielectric strength	ASTM D 2671	20 kV/mm
Volume resistance	ASTM D 257	10 ¹⁴ Ωxcm

Chemical

Chemical resistance	ASTM-DTL-23053/5	Good
Water absorption	ASTM D 570	≤ 0.15 %
Oxygen index	EN ISO 4589-2	35%
Copper Corrosion	ASTM D 2671 B	No corrosion

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