

Polyolefin heat-shrink tubing

FITCOTUBE® FT881

Attributes	Testing	Value
Mechanical		
Tensile strength	ASTM D 638	≥ 18 MPa
Ultimate elongation	ASTM D 638	≥ 460 %
Longitudinal change	ASTM D 2671	- 1 %
Density	ASTM D 792	0.95
Impact test (-30°C)	JIS C 3005	no cracking
Stress crack resistance (50°C x 24 h)	(immersion IGEPAL 10 %)	no expansion
Thermal		
Tensile strength after long-term heat ageing (120°C x 24h)	ASTM D 638	≥ 14 MPa
Elongation after long-term heat ageing (120°C x 24h)	ASTM D 638	≥ 500 %
Short term ageing (200°C x 24h)	ASTM D 2671	no cracking, flowing or dripping
Fire behavior	FMVSS 302	pass
Embrittlement	ASTM D 746	- 70°C
Deformation resistance (140°C x 10 min.)	(under 2 kg/cm 2 x 5 min)	≥ 75 %
Chemical		
Water absorption	ISO 62	max. 0.5 %
Liquid resistance (23°C x 24h)	ISO 62	pass
Other qualities		
Adhesive strength*	(T-peel on ALU-pipe at 23°C)	≥ 20N/10mm
Notch impact strength (-40°C)*	DIN VDE 0472	no cracking
Notch impact strength (-35°C x 4h)*	(-30°C x 0,5h)	no cracking
Salt water spray test (3000h)*	NF-X 41.002	no corrosion
Bend test (5 x 25mm diameter)*	(Visual check within 20 sec.)	no cracking
Stickness (tightness)* (120°Cx20min)	(Visual checking)	Lines stick together, no replacement

* Tubing shrunk on metal pipe. Fluids: H2SO4. NaCl. Brake fluids SAE 1703 and LHM. High Octane Gasoline.

GREMCO GmbH · Sterzinger Str. 6 · D-86165 Augsburg · T +49.821.272 63-0 · F +49.821.272.63-55 · info@gremco.de · www.gremco.de

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