

Polyolefin heat-shrink tubing

## FITCOTUBE<sup>®</sup> FT881

Halogen-free, double-walled polyolefin heat-shrinkable tube, second layer out of hot-melt adhesive. Use as protection against corrosion of brake- and fuel lines. Especially suitable for automotive Industry.

Operating temperature:	- 55°C to + 105°C, short term up to + 200°C
Shrink temperature:	+ 115° C
Shrink ratio:	approx. 1.5 : 1
Standard colors:	Black



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT881-6/4.5 sw	6.00	4.50	1.20
FT881-9/6.1 sw	9.00	6.10	1.20
FT881-11/7.9 sw	11.00	7.90	1.30

## Packaging:

On spools. Special sizes, cut lengths on request.

**Processing note:** 

Care for clean and straight cutting edges. Start shrinkage on the end. Pre-heat metal body.

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FITCO<sup>\*</sup> = trademark of GREMCO

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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.

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