

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT555

Halogen free, high performance, flexible, cross-linked polyolefin heat shrink tubing. Reliable insulation, mechanical protection primarily used in the automotive industry and commercial industrial applications. Prevents outgassing (“fogging-effect”) in lightning applications.

- Operating temperature:** - 70°C to + 135°C, short time up to + 225°C
- Shrink temperature:** + 90°C
- Shrink ratio:** 2 : 1
- Standard color:** Black
Special colors on request
- Test method:** According to VW 50180 and VW 50181 gravimetric fogging behavior



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT555-120	1.20	0.60	0.31
FT555-160	1.60	0.80	0.33
FT555-240	2.40	1.20	0.36
FT555-320	3.20	1.60	0.39
FT555-480	4.80	2.40	0.42
FT555-640	6.40	3.20	0.45
FT555-950	9.50	4.80	0.48
FT555-1270	12.70	6.40	0.52
FT555-1900	19.00	9.50	0.58
FT555-2540	25.40	12.70	0.67
FT555-3800	38.00	19.00	0.76
FT555-5100	51.00	25.40	0.85
FT555-7600	76.00	38.00	0.95
FT555-10200	102.00	51.00	1.05
FT555-12700	127.00	63.50	1.40

- Packaging:** On spools, cut lengths or printed tubing on request.
Special sizes on request.
- Processing note:** Care for clean and accurate cutting edge. Start shrinkage on the end.
Pre-heat metal body.

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Properties	Test Method	Requirements	Typical Value
Mechanical			
Tensile strength	ASTM D 638	Min. 10.4 MPa	Pass
Ultimate elongation	ASTM D 638	Min. 200%	≥ 400%
Longitudinal change	SAE-AS23053	- 5% ± 10%	- 5%
Elastic modulus	ASTM D 882	Max. 173 MPa	≤ 100 MPa
Specific density	ASTM D 792	Nom. 1.1	Pass
Thermal			
Low temperature flexibility (4h x - 70°C)	UL 224	No cracking	Pass
Heat shock (4h x 225°C)	UL 224	No cracking, flowing or dripping	Pass
Elongation after long term aging (168h x 136°C)	SAE-AS23053	Min. 100%	≥ 170%
Tensile strength after long term aging (168h x 136°C)	SAE-AS23053	Min. 7.3 MPa	Pass
Flammability	FMVSS 302	Pass	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 19.7 kV/mm	≥ 23 kV/mm
Volumee resistance	ASTM D 257	Min. 10 ¹⁴ Ω*cm	Pass
Nominal voltage	-	-	600 V
Breakdown test (60s x 2,5kV)	UL 224	No breakthrough	Pass
Chemical			
Copper corrosion (16h x 175°C)	UL 224	No corrosion	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 10.4 MPa (Tensile strength)	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 200% (Elongation)	Pass
Fogging behavior gravimetric	VW 50180, VW 50181	-	Pass

* Tested fluids (24h x 23°C):

Gasoline, simulated windshield cleaner, brake fluid, anti-freezing fluid, battery fluid, engine oil, torque conversion oil