

Polyolefin Heat-Shrink Tubing

FITCOTUBE[®] FT300 clear

Attributes	Testing	Requirements	Value
Mechanical			
Tensile strength	ASTM D 638	Min. 10,4 MPa	≥ 20 MPa
Ultimate elongation	ASTM D 638	Min. 200%	≥ 450 %
Longitudinal change	SAE-AS23053	-5% ± 10%	- 5 %
Elastic modulus	ASTM D 882	Max. 173 MPa	≤ 80 MPa
Specific density	ASTM D 792	Max. 1.0	0.95
Thermal			
Transparency (24h x 175°C)	SAE-AS23053	Readable identification	Pass
Low temperature flexibility (4h x -55°C)	SAE-AS23053	No cracking	Pass
Long term aging (168h x 175°C)	SAE-AS23053	Min. 100%	≥ 250%
Heat shock (4h x 250°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Copper corrosion (16h x 175°C)	SAE-AS23053	No corrosion	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 19,7 kV/mm	≥ 30 kV/mm
Volume resistance	ASTM D 876	Min. 10 ¹⁴ Ωxcm	≥ 10 ¹⁵ Ωxcm
Nominal voltage	-	-	600V
Breakdown test (60s x 2,5kV)	UL 224	No breakthrough	Pass
Chemical			
Water absorption	ASTM D 570	Max. 0.5%	≤ 0.2 %
Fungus resistance	SAE-AS23053	ASTM G 21	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 6.9 MPa (Tensile strength)	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 15.8 kV/mm (Dielectric strength)	Pass