

FT100

TECHNICAL DATA SHEET

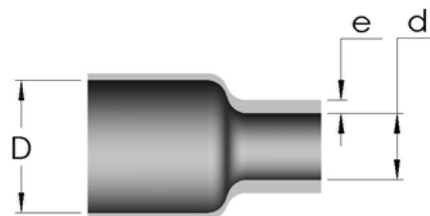
FT100 is very versatile high-grade polyolefin tubing which is highly flame-retardant. With its low shrinkage, **FT100** meets the most stringent industrial and military standards (MIL-I-23053 class 1). It offers an excellent balance of chemical, electrical and mechanical properties.

Fields of application: Wire and harness marking sleeves, colour coding, insulation, covers and jackets on harness systems where quality is a priority in the electrical, automotive and aeronautical industries.

Working temperature -55°C up to +135°C

Standard colours Black, yellow, blue, white, red.

Non-standard colours Upon request.



DIMENSION DATA

Reference	Inside diameter (mm)		Wall-thickness after recovery (nom) (mm) (e)
	As supplied mini. (D)	After recovery maxi. (d)	
FT100 120	1,20	0,60	0,41 ±0,07
FT100 160	1,60	0,80	0,43 ±0,07
FT100 240	2,40	1,20	0,51 ±0,07
FT100 320	3,20	1,60	0,51 ±0,07
FT100 480	4,80	2,40	0,51 ±0,07
FT100 640	6,40	3,20	0,64 ±0,07
FT100 950	9,50	4,80	0,64 ±0,07
FT100 1270	12,70	6,40	0,64 ±0,07
FT100 1900	19,10	9,50	0,76 ±0,07
FT100 2540	25,40	12,70	0,89 ±0,12
FT100 3800	38,10	19,10	1,02 ±0,15
FT100 5100	50,80	25,40	1,14 ±0,17
FT100 7600	76,20	38,10	1,27 ±0,20
FT100 10200	101,60	50,80	1,40 ±0,22

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TECHNICAL CHARACTERISTICS :

	Standard Requirements	Test Methods
PHYSICAL		
Working temperature	-55°C up to +135°C	
Shrink temperature	+90°C	
Shrink ratio	2 : 1	
Longitudinal change	±5% maxi.	SAE-AMS-DTL-23053
Specific gravity	1,35 maxi.	ASTM D 792
Elongation at break	200% mini.	ASTM D 638
Tensile strength	10,3MPa mini.	ASTM D 638
Low temperature flexibility (4h at -55°C)	No cracking	SAE-AMS-DTL-23053
Heat ageing (168h at +175°C)	100% mini.	SAE-AMS-DTL-23053
Flammability (60s max.)	Self-extinguishing	UL 224, VW-1
Secant modulus	173 MPa	ASTM D 882
ELECTRICAL		
Dielectric strength	19,7 kV/mm min.	ASTM D 876
Volume resistance	1x10 ¹⁴ Ω cm min.	ASTM D 876
CHEMICAL		
Water absorption	0,5% maxi.	ASTM D 570
Fluid resistance (After 24h immersion at +23°C)	6,9 MPa	SAE-AMS-DTL-23053
CUTTING / MARKING		
Upon request.		
PACKAGING		
On spool or 1,22m length.		
SPECIFICATIONS		
UL 224 125°C 600 V VW-1, CSA C 22.2 No. 198.1, 125°C 600 V.		
SAE-AMS-DTL-23053/5 class 1.		

We certify that the values provided are as accurate as possible. Use of these values, however, remains the sole responsibility of the customer and cannot in any way substitute for testing the product under real conditions of use. The user must assess whether this product is suitable for a particular use. Gremco shall not be held responsible for any loss or anomaly resulting from the correct or incorrect use of this product.