

IGTF1

Gaines thernorétractables 4:1 noires avec parois interieur adhésive



Features/Applications

GREMTUBE® G61A 4X is a flame retardant, irradiated polyolefin heat shrink tubing with adhesive. GREMTUBE® G61A 4X offers both insulation and sealing for protection and meets the most stringent industrial and military requirements. It covers a wide range of diameters, allowing for reduced inventory. It accommodates irregular or jagged shape.

It offers an operating temperature range to -55°C to 135°C for the heat shrink (outer tubing) & max. 110°C for adhesive (inner tubing).

GREMTUBE® G61A 4X is particularly suited to protect automotive cables, wire bundles and metal tubes against water and moisture where flame retardant properties are required.

Various

Standard colours: Black, Clear.

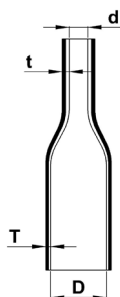
Special sizes and colours available on request.

Specifications

UL 224, File n°E328937: VW-1, 600V, 125°C, outside layer only, except clear products

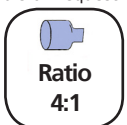
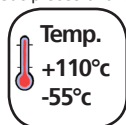
MIL-I-23053/4 Class 3

Dimensions



Reference <i>IGTF1</i>	As supplied (mm) Inside Diameter Mini. (D)	After recovery (mm)		Standard packaging (m)	
		Inside Diameter Maxi. (d)	Total Wall Thickness Mini. (t)	Spool	Length
4/1	4.0	1.0	0.90	100	1.2
8/2	8.0	2.0	0.90	50	1.2
12/3	12.0	3.0	1.30	50	1.2
16/4	16.0	4.0	1.60	25	1.2
24/6	24.0	6.0	2.10	25	1.2
32/8	32.0	8.0	2.30	25	1.2
52/13	52.0	13.0	2.50	25	1.2

• Cut pieces available on request



Property

		Values	Test Methods
Physical	Working temperature	-55°C to +110°C	-
	Longitudinal change	±10 %	-
	Density	≤ 1,40g/cm³	ASTM D 792
	Tensile strength	≥ 1,1 kgf/mm²	ASTM D 638
	Elongation	Unaged	≥ 200%
			MIL-I-23053
	Tensile strength	Aged (168h @ 158°C)	≥ 0,8 kgf/mm²
	Elongation		≥ 100%
			ASTM D 638
			MIL-I-23053
Electrical	Heat shock (4h @ 250°C)	Pass	MIL-I-23053
	Low temperature flexibility (4h @ -55°C)	No crack	MIL-I-23053
	Secant modulus	≤ 173 MPa	ASTM D 882
	Dielectric strength	≥ 19,7 kV/mm	ASTM D 2671
Chemical	Volume resistivity	≥ 1x10 ¹⁴ Ω-cm	ASTM D 876
	Fluid resistance (24h @ 24°C)	Tensile strength	≥ 0,7 kgf/mm²
		Dielectric strength	≥ 15,8 kV/mm
			MIL-I-23053
	Corrosion (16h @ 175°C)	Copper	No corrosion
		Copper mirror	No corrosion
			MIL-I-23053
	Flammability	Pass	ASTM D 2671 Procedure B
	Fungus resistance	No growth	ASTM G 21

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.



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.

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