



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. 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>GREMTUBE® G61A 4X</i>	As supplied (mm)	After recovery (mm)		Standard packaging (m)	
	Inside Diameter Mini. (D)	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/cm ³	ASTM D 792	
	Tensile strength	Unaged	≥ 1,1 kgf/mm ²	ASTM D 638
	Elongation	Unaged	≥ 200%	MIL-I-23053
	Tensile strength	Aged (168h @ 158°C)	≥ 0,8 kgf/mm ²	ASTM D 638
	Elongation	Aged (168h @ 158°C)	≥ 100%	MIL-I-23053
	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	
Electrical	Dielectric strength	≥ 19,7 kV/mm	ASTM D 2671	
	Volume resistivity	≥ 1x10 ¹⁴ Ω-cm	ASTM D 876	
Chemical	Fluid resistance (24h @ 24°C)	Tensile strength	≥ 0,7 kgf/mm ²	MIL-I-23053
		Dielectric strength	≥ 15,8 kV/mm	
	Corrosion (16h @ 175°C)	Copper	No corrosion	MIL-I-23053
		Copper mirror	No corrosion	
	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.

