



### Features/Applications

GREMTUBE® GREN F and GREAF are halogen free, heavy wall irradiated polyolefin heat shrink tubing (GREN F), with adhesive (GREAF). GREMTUBE® GREN F and GREAF offer good electrical insulation and mechanical protection and ensure total encapsulation after shrinkage on the component. GREMTUBE® GREN F and GREAF are suitable for protection of low voltage (up to 1kV) cables and accessories where zero halogen properties are required.

### Various

Standard colour: Black.

### Specifications

Resistant to UV radiation.



### Dimensions

Reference <i>GREMTUBE® GREN F</i> <i>/ GREAF</i>	As supplied (mm)		After recovery (mm)		Standard Length (m/stick)	
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)		
9/3	9,00	3,00	3,00	1,80	1,0	1,5
13/4	13,00	4,00	4,00	2,40	1,0	1,5
19/6	19,00	6,00	6,00	2,40	1,0	1,5
28/9	28,00	8,00	8,00	3,00	1,0	1,5
33/8	33,00	8,00	8,00	3,00	1,0	1,5
45/12	45,00	12,00	12,00	4,10	1,0	1,5
51/16	51,00	16,00	16,00	4,10	1,0	1,5
68/22	68,00	19,00	19,00	4,10	1,0	1,5
85/25	85,00	22,00	22,00	4,10	1,0	1,5
105/30	105,00	30,00	30,00	4,10	1,0	1,5
130/36	130,00	34,00	34,00	4,10	1,0	1,5
160/50	160,00	42,00	42,00	4,50	1,0	1,5
185/50	185,00	50,00	50,00	4,50	1,0	1,5

• Cut pieces are available on request

Property	Values	Test Methods
<b>Physical</b>		
Working temperature	-55°C to +125°C	-
Longitudinal change	15% maxi.	ASTM D 2671
Elongation at break	400% mini.	ASTM D 638
Tensile strength	12 MPa	ASTM D 638
Low temperature flexibility	No cracking	ASTM D 2671
<b>Electrical</b>		
Dielectric strength	20 kV/mm mini.	ASTM D 149
Volume resistivity	1x10 <sup>12</sup> Ω cm mini.	ASTM D 2571
<b>Chemical</b>		
Water absorption	0,1% maxi.	ISO 62-86
Fluid resistance	Excellent	ISO 175-99
Fungus resistance	Good	ASTM G21-96 ASTM D 638

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



Whilst every attempt is made to provide data that is as accurate as possible the values provided should be treated as a guide only. It remains the responsibility of the user to test the product and determine suitability. GREMTEK shall not be held responsible for any loss or defect resulting from incorrect, improper or inappropriate use of this product.