

15% Glass fiber Filled PTFE Tube

PTFE - GF15 – grey white

General description

15% Glass fiber Filled PTFE Tube is virgin PTFE filled with 15% glass fiber in grey white color. Due to the filling, the material is more resistant to cold flow and provides the necessary properties to be used as composite seals with energizer to bear high pressures. It has a similar chemical resistance like virgin PTFE and can be used in the same temperature range, which makes it a very universal sealing material. GF15 glass filled ptfе tube or rod should not be used for dynamic applications in water.

Physical properties

Density:	ASTM D792, DIN EN ISO 1183	g/cm ³	2,2 – 2,3
Hardness:	ASTM D2240, DIN ISO 7619-1	Shore D	≥ 55
Tensile strength:	ASTM D4745, DIN EN ISO 527	N/mm ²	≥ 17
Elongation at break:	ASTM D4745, DIN EN ISO 527	%	≥ 200
Coefficient of friction (dynamic):	ASTM D1894	-	0,08 – 0,18
Wear factor (K):	ASTM D3702	-	0,010 – 0,021
Compr. strength at 1% deformation:	ASTM D695	N/mm ²	≥ 8
Therm. Exp. Coeff. (lin.) 25-100°:	ASTM D696	10 ⁻⁵ /°C	9 – 13

Temperature range: -200°C to 260°C

Main application

Piston or Rod seals with spring or elastomere energizer, rotary seals, back-up rings, special seals and O-rings, high and low temperature applications, chemical resistance required, low friction applications.

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