

60% Bronze Filled PTFE Tube

PTFE - BF60 – Brown

General description

60% Bronze Filled PTFE Tube is a filled compound containing 40% virgin PTFE with 60% bronze powder. The bronze added in PTFE help to enhance much more mechanical properties, dimensional stability and thermal conductivity compared to standard grades of PTFE. The bronze filled PTFE offers a broad operating temperature and low cold creep, but provides the weakest resistance to chemicals compared to any other PTFE grades available due to the bronze filler

Physical properties

Density:	ASTM D792, DIN EN ISO 1183	g/cm ³	3.5 – 3.9
Hardness:	ASTM D2240, DIN ISO 7619-1	Shore D	≥ 62
Tensile strength:	ASTM D4745, DIN EN ISO 527	N/mm ²	≥ 15
Elongation at break:	ASTM D4745, DIN EN ISO 527	%	≥ 150
Coefficient of friction (dynamic):	ASTM D1894	-	0.14 – 0.25
Wear factor (K):	ASTM D3702	-	0.010 – 0.03
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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