

Physical properties PTFE +60% bronze

Product characteristics:

- Improved thermal dimensional stability
- Improved deformation under load
- Reduced cold flow
- Improved compression strength
- Exceptional temperature resistance
- High thermal conductivity
- Good chemical stability
- Low friction behaviour
- Improved surface hardness
- High resistance to abrasion

General properties	Test method	Unit	Value
Color	-	-	braun
Specific gravity	ASTM D792	g/cm ³	3.80 – 4.00
Water absorption	ASTM D570	%	0.03
Flamability	UL 94		V-0
Thermal properties			
Thermal conductivity	ASTM C177	W/(m·K)	0.65
Coefficient of linear thermal expansion (25 – 100°C)	ASTM D696	10 ⁻⁵ /°C	8.5 - 10
Mechanical properties			
Tensile strength	ASTM D4745	MPa	≥ 17
Elongation	ASTM D4745	%	≥ 150
Hardness	ASTM D2240	Shore D	≥ 65
Ball Hardness	ASTM D785	MPa	≥ 30
Deformation under load (140 Kg/cm ² for 24 hrs. at 23°C)	ASTM D621	%	5.5 – 6.5
Permanent deformation (after 24 hrs. Relaxation at 23°C)	ASTM D621	%	2.5 – 3.5
Coefficient of static friction	ASTM D1894		0.18 – 0.20
Coefficient of dynamic friction	ASTM D1894		0.16 – 0.18
Wear coefficient		cm ³ min. 10 ⁻⁸ kg m h	10 - 15
Electrical properties			
Volume resistivity	ASTM D257	Ohm·cm	10 ⁷
Surface resistivity	ASTM D257	Ohm	10 ⁶

This table is a valuable help in the choice of a material. The data listed here fall within the normal range of products properties, but they should not be used to establish material specification limits nor used alone as the basis of design.