



DATA SHEET

MATERIAL REFERENCE – FLUORINOID® FL 110

DESCRIPTION BRONZE FILLED PTFE

FORMULATION 60% PTFE, 40% BRONZE POWDER (BY WEIGHT)

TYPICAL APPLICATIONS

Addition of bronze to PTFE increases hardness and compressive strength, provides better dimensional stability and lowers creep, cold flow and wear. It also increases thermal and electrical conductivity.

TYPICAL PHYSICAL PROPERTIES #

	Moulding Direction	Cross Direction
Compressive Strength at 0.2% offset	9.7 MPa	9 MPa
Deformation Under Load (24 hours, 6.9 MPa, 23°C)	8.6 %	7.0 %
Permanent Deformation	4.4 %	3.1 %
Coefficient of Thermal Expansion 25 - 150°C (cm/cm/°C)	1.17 x 10 ⁻⁴	1.08 x 10 ⁻⁴
SPECIFIC GRAVITY (BS EN ISO 13000-2)	3.0 – 3.12	
TENSILE STRENGTH (BS EN ISO 13000-2)	min 19 MPa	
ELONGATION (BS EN ISO 13000-2)	min 230 %	
SHORE D HARDNESS (BS EN ISO 13000-2)	63 - 68	
MAXIMUM WORKING TEMPERATURE	260°C	
THERMAL CONDUCTIVITY	4.3 BTU/hr/ft ² /°F/in	
LIMITING PV 10 ft/min	7500	
LIMITING PV 100 ft/min	12580	
LIMITING PV 1000 ft/min	10500	

These figures are typical values for the material and do not represent a product specification. Properties will vary depending on the source of raw material, method of processing, physical form of the product, direction of measurement etc.

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Fluorinoid® is a registered trademark of Fluorocarbon Company Ltd, Caxton Hill, Hertford, Herts, SG13 7NH

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