




MATERIAL DATASHEET

Material Reference:
FLUORONOID® FL110
Bronze Filled PTFE

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> Description >

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

Properties	Value	Method
Specific Gravity	3.0-3.12	BSN 13000-2
Tensile Strength	min. 19 MPa	BSN 13000-2
Elongation	min. 230%	BSN 13000-2
Shore D Hardness	63-68	BSN 13000-2
Max Working Temp	260°C	

	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)	1.17x10 ⁻⁴	1.08x10 ⁻⁴

Thermal Conductivity	4.3 BTU/hr/ft ² /°F/in
Limiting PV 10ft/min	7500
Limiting PV 100ft/min	12580
Limiting PV1000ft/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.