


Bakelite® PF 7590

PF-(CF+X)

Momentive Specialty Chemicals

Product Texts
Product description:

Phenolic moulding compound, inorganically/organically filled, modified with graphite, good heat conductivity, good sliding properties (Not suitable for use of higher voltage).

Application areas:

Bearers for grinding disc centers.

Property Name	Value	Unit	Standard No.
Apparent density (moulding compound)	0.75	g/cm ³	ISO 60
Moulding shrinkage (compression moulding, longitudinal)	0.25	%	ISO 2577
Post shrinkage (compression moulding, 168h/110°C)	0.15	%	ISO 2577
Flexural strength (2mm/min)	90	MPa	ISO 178
Flexural modulus	11500	MPa	ISO 178
Water absorption (24h/23°C)	8	mg	similar to ISO 62

Preparation of Test Specimens of Thermosetting Moulding Compound

- Compression to ISO 295
- Injection to ISO 10724

Storage capability

2 years (relative humidity of 50-60% and maximum storage temperature of approximately 20°C)

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Charpy impact strength (+23°C)	5.5	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Temp. of deflection under load, 8.00 MPa	160	°C	ISO 75-1/-2
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	15	-	IEC 60250
Dissipation factor, 100Hz	0.08	E-4	IEC 60250
Volume resistivity	1E9	Ohm*m	IEC 60093
Surface resistivity	1E10	Ohm	IEC 60093
Other properties			
ISO Data			
Density	1680	kg/m ³	ISO 1183
Test specimen production			
ISO Data			
Injection Molding, injection temperature	115	°C	ISO 10724
Injection Molding, injection velocity	170	mm/s	ISO 10724
Injection Molding, hold pressure	100	MPa	ISO 10724
Injection Molding, cure time	25	min	ISO 10724

