


Bakelite® PF 7595

PF-(GF+X)

Momentive Specialty Chemicals

Product Texts
Product description:

Phenolic moulding compound, inorganically/organically filled, modified with graphite, good heat conductivity, good sliding properties, conductive in electrical properties.

Application areas:

Bearers for grinding disc centers, gas meter parts, pump parts, sliding/guiding elements, glide bearing parts.

Property Name	Value	Unit	Standard No.
Apparent density (moulding compound)	0.85	g/cm ³	ISO 60
Moulding shrinkage (injection moulding, longitudinal)	0.2	%	ISO 2577
Post shrinkage (injection moulding, 168h/110°C)	0.15	%	ISO 2577
Moulding shrinkage (compression moulding, longitudinal)	0.2	%	ISO 2577
Post shrinkage (compression moulding, 168h/110°C)	0.1	%	ISO 2577
Tensile strength (5mm/min)	45	MPa	ISO 527-1/2
Compr. strength (test spec. flat tested)	130	MPa	ISO 604
Flexural strength (2mm/min)	80	MPa	ISO 178
Flexural modulus	12000	MPa	ISO 178
Ball indentation hardness (H 961/30)	450	MPa	ISO 2039/P1
Water absorption (24h/23°C)	6	mg	similar to ISO 62

Additional characteristics:

T, G, L

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)

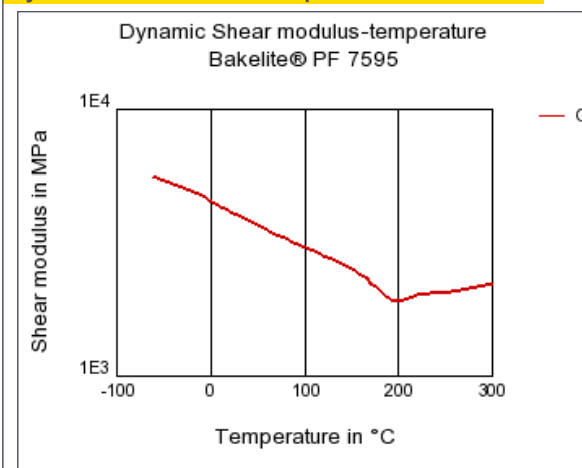
Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	12000	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	3.5	kJ/m ²	ISO 179/1eU
Thermal properties			
ISO Data			
Temp. of deflection under load, 8.00 MPa	170	°C	ISO 75-1/-2
Other properties			
ISO Data			
Density	1590	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

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Injection Molding, cure time	25	min	ISO 10724
Compression Molding, mold temperature	160	°C	ISO 295
Compression Molding, cure time	1	min	ISO 295

Diagrams

Dynamic Shear modulus-temperature



Characteristics

Processing

Injection Molding, Transfer Molding

Other text information

Injection Molding

VERARBEITUNG	Temperature of material:	105-115	°C
	Mould temperature:	160-190	°C
	Curing time:	10-20	sec
	Further Information:		
	Barrel temperature		
	- Feed zone:	60-75	°C
	- Nozzle zone:	80-100	°C
	Cavity moulding pressure: d>	>15	MPa
	Back pressure:	0.5-2	MPa
	Holding pressure:	60% of injection pressure	

Compression molding

PROCESSING	Mould temperature:	160-190	°C
	Curing time:	20-40	sec
	Cavity moulding pressure:	>15	MPa