


Bakelite® PF 2560

PF-X

Momentive Specialty Chemicals

Product Texts
Product description:

Phenolic moulding compound, inorganically/organically filled, average heat resistance, high surface quality, lower water absorption than PF 31, minimal distortion, UL listed moulding compound 1.5 mm / V-1 (ALL), 3.0 mm / V-0 (ALL).

Application areas:

Housings for domestic appliances, oven strips.

Property Name	Value	Unit	Standard No.
Apparent density (moulding compound)	0.75	g/cm ³	ISO 60
Moulding shrinkage (injection moulding, longitudinal)	0.75	%	ISO 2577
Post shrinkage (injection moulding, 168h/110°C)	0.4	%	ISO 2577
Tensile strength (5mm/min)	50	MPa	ISO 527-1/2
Compr. strength (test spec. flat tested)	220	MPa	ISO 604
Flexural strength (2mm/min)	90	MPa	ISO 178
Flexural modulus	9000	MPa	ISO 178
Ball indentation hardness (H 961/30)	350	MPa	ISO 2039/P1
Water absorption (24h/23°C)	20	mg	similar to ISO 62

Additional characteristics:

A, EL, UL

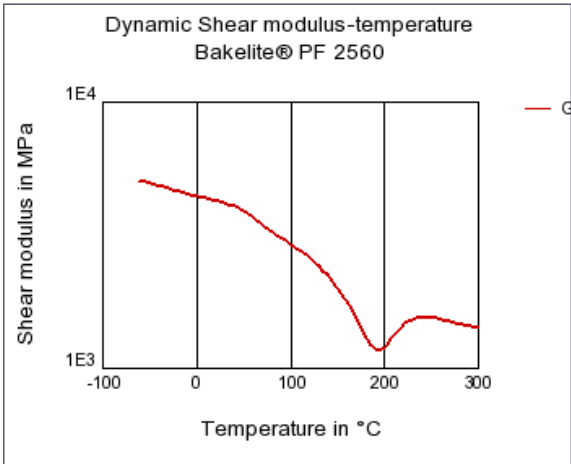
Preparation of Test Specimens of Thermosetting Moulding Compound

- 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	0.8	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	9000	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	6	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	1.6	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Temp. of deflection under load, 8.00 MPa	115	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thckn.	V-1	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	IEC 60695-11-10
UL recognition	UL	-	-
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	14.5	-	IEC 60250

Bakelite® PF 2560			
PF-X		Momentive Specialty Chemicals	
Dissipation factor, 100Hz	0.2	E-4	IEC 60250
Volume resistivity	1E9	Ohm*m	IEC 60093
Surface resistivity	1E10	Ohm	IEC 60093
Electric strength	6	kV/mm	IEC 60243-1
Comparative tracking index	125	-	IEC 60112
Other properties			
ISO Data		Value	Unit
Density		1590	kg/m³
Test specimen production			
ISO Data		Value	Unit
Injection Molding, injection temperature		115	°C
Injection Molding, injection velocity		170	mm/s
Injection Molding, hold pressure		100	MPa
Injection Molding, cure time		25	min
Compression Molding, mold temperature		160	°C
Compression Molding, cure time		1	min
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