

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

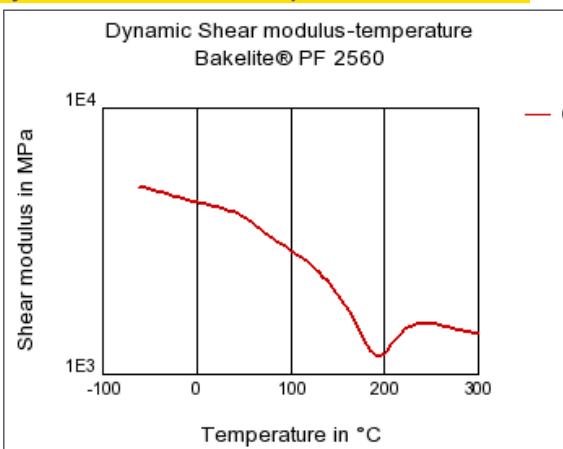
Preparation of Test Specimens of Thermosetting Moulding Compound

- 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	Value	Unit	Test Standard
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	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 8.00 MPa	115	°C	ISO 75-1-2
Burning behav. at 1.5 mm nom. thickn.	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	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	14.5	-	IEC 60250

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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	Value	Unit	Test Standard			
ISO Data						
Density	1590	kg/m ³	ISO 1183			
Test specimen production	Value	Unit	Test Standard			
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			
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			