

TECHNICAL DATA SHEET

Bakelite® PF 2560

Bakelite Synthetics
PF-X

Processing

Injection molding, Transfer molding

Product Text

Product Information

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 5 27-1/2
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 2 039/P 1

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Water absorption (24h/23°C)	20	mg	similar to ISO 62
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Additional characteristics: for electrostatic coatingL

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)

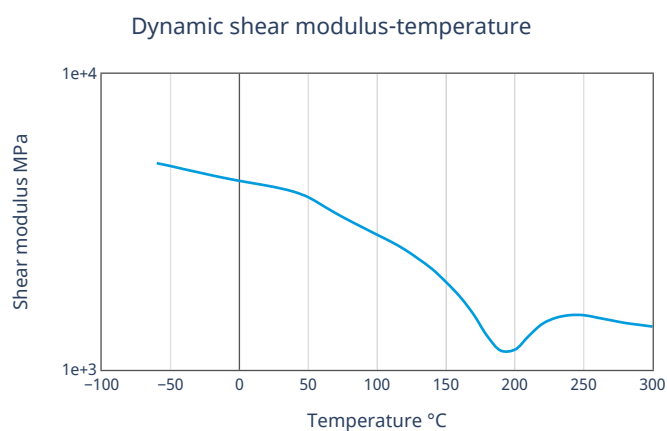
Processing/Physical Characteristics	Value	Unit	Standard
Molding shrinkage, parallel	0.75	%	ISO 294-4, 2577
Mechanical Properties	Value	Unit	Standard
Tensile modulus	9000	MPa	ISO 527
Poisson's ratio	0.35		ISO 527
Charpy impact strength, +23°C	6	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	1.6	kJ/m ²	ISO 179/1eA
Thermal Properties	Value	Unit	Standard
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	
Yellow card available	yes		
Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	14.5		IEC 62631-2-1
Dissipation factor, 100Hz	0.2	E-4	IEC 62631-2-1
Volume resistivity	1E9	Ohm*m	IEC 62631-3-1
Surface resistivity	1E10	Ohm	IEC 62631-3-2
Electric strength	6	kV/mm	IEC 60243-1
Comparative tracking index	125		IEC 60112
Other Properties	Value	Unit	Standard
Density	1590	kg/m ³	ISO 1183
Test Specimen Production	Value	Unit	Standard
Injection molding, injection temperature	115	°C	ISO 10724

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Test Specimen Production	Value	Unit	Standard
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



Processing Information

Injection molding

VERARBEITUNG

Temperature of material:	80 - 100	°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:	>15	MPa
Back pressure:	0.5-2	MPa
Holding pressure:	60% of injection pressure	

Compression molding

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PROCESSING

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