

Bakelite® PF 2535

PF-X

Momentive Specialty Chemicals

Product Texts**Product description:**

Phenolic moulding compound, inorganically/organically filled, average heat resistant, steam resistant, dish washer proof, high surface quality.

Application areas:

Fittings for ovens and dishwashers, tableware/cutlery handles, cookware fittings.

Property Name	Value	Unit	Standard No.
Apparent density (moulding compound)	0.7	g/cm ³	ISO 60
Moulding shrinkage (injection moulding, longitudinal)	0.8	%	ISO 2577
Post shrinkage (injection moulding, 168h/110°C)	0.5	%	ISO 2577
Tensile strength (5mm/min)	55	MPa	ISO 527-1/2
Compr. strength (test spec. flat tested)	225	MPa	ISO 604
Flexural strength (2mm/min)	90	MPa	ISO 178
Flexural modulus	8500	MPa	ISO 178
Water absorption (24h/23°C)	40	mg	similar to ISO 62

Additional characteristics:

A, M

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)

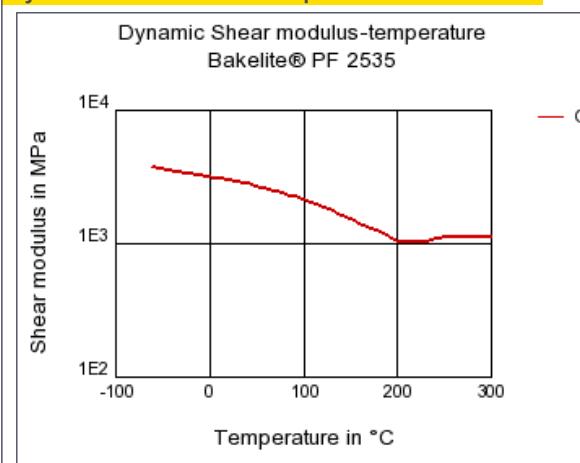
Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	8500	MPa	ISO 527-1/2
Charpy impact strength (+23°C)	6.5	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	1.7	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Temp. of deflection under load, 8.00 MPa	115	°C	ISO 75-1/2
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	12.5	-	IEC 60250
Dissipation factor, 100Hz	0.25	E-4	IEC 60250
Volume resistivity	1E10	Ohm*m	IEC 60093
Surface resistivity	1E11	Ohm	IEC 60093
Other properties			
ISO Data			
Density	1500	kg/m ³	ISO 1183

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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
	Cavity moulding pressure:	>15	MPa