


**Bakelite® PF 2736**

PF-X

Momentive Specialty Chemicals

**Product Texts**
**Product description:**

Phenolic moulding compound, inorganically/organically filled, increased tracking resistance, UL listed moulding compound 0,46 mm / V-0 (BK, Suffix H), 0.81 mm / V-0 (NC, GN, BK), 1.5 mm/ V-0 (ALL).

**Application areas:**

Bobbins, relays, circuit prot. switches MCB housings, pump parts, sealing flanges, insulating caps, electrical switch gears and lamp holders.

Property Name	Value	Unit	Standard No.
Apparent density (moulding compound)	0.73	g/cm³	ISO 60
Moulding shrinkage (injection moulding, longitudinal)	0.65	%	ISO 2577
Post shrinkage (injection moulding, 168h/110°C)	0.5	%	ISO 2577
Moulding shrinkage (compression moulding, longitudinal)	0.35	%	ISO 2577
Post shrinkage (compression moulding, 168h/110°C)	0.45	%	ISO 2577
Tensile strength (5mm/min)	50	MPa	ISO 527-1/2
Compr. strength (test spec. flat tested)	230	MPa	ISO 604
Flexural strength (2mm/min)	95	MPa	ISO 178
Flexural modulus	9000	MPa	ISO 178
Ball indentation hardness (H 961/30)	325	MPa	ISO 2039/P1
Water absorption (24h/23°C)	55	mg	similar to ISO 62

Additional characteristics:

.5, D, 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
<b>ISO Data</b>			
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	10000	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	7	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	1.3	kJ/m²	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 8.00 MPa	135	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	14	-	IEC 60250
Dissipation factor, 100Hz	0.3	E-4	IEC 60250

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Volume resistivity	1E10	Ohm*m	IEC 60093
Surface resistivity	1E11	Ohm	IEC 60093
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	175	-	IEC 60112
Other properties	Value	Unit	Test Standard
ISO Data			
Density	1570	kg/m³	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
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