

Bakelite® PF 6501

Phenolic

Hexion Inc.

Message:

Product Description

Phenolic moulding compound, inorganically filled, glass fibre reinforced, high dimensional stability at raised temperature, good media resistance, heat-resistant

Application Areas

Thermally and dynamically highly stressed parts in automotive field, pulleys

General Information			
Filler / Reinforcement	Glass Fiber		
	Inorganic		
Features	Good Dimensional Stability		
	Low Shrinkage		
	Medium Heat Resistance		
Uses	Automotive Applications		
	Pulleys		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.60	g/cm ³	ISO 1183
Apparent Density	0.60	g/cm ³	ISO 60
Molding Shrinkage			ISO 2577
-- 1	0.20	%	
-- 2	0.25	%	
Water Absorption - 24h/23C	14.0	mg	ISO 62
Post Shrinkage			ISO 2577
-- 3	0.10	%	
-- 4	0.10	%	
Compression Molding Molding Pressure	> 15.0	MPa	
Compression Molding Temperature	160 to 190	°C	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 961/30)	400	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	12500	MPa	ISO 178
Flexural Stress ⁵	175	MPa	ISO 178

Compressive Stress	250	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	170	°C	ISO 75-2/C
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+11	ohms·cm	IEC 60093
Electric Strength ⁶ (1.00 mm)	33	kV/mm	IEC 60243-1
Relative Permittivity (100 Hz)	6.00		IEC 60250
Dissipation Factor (100 Hz)	0.10		IEC 60250
Injection	Nominal Value	Unit	
Rear Temperature	60.0 to 75.0	°C	
Nozzle Temperature	80.0 to 100	°C	
Processing (Melt) Temp	80.0 to 100	°C	
Mold Temperature	160 to 190	°C	
Injection Pressure	> 15.0	MPa	
Back Pressure	0.500 to 2.00	MPa	
NOTE			
1.	Compression		
2.	Injection		
3.	Injection		
4.	Compression		
5.	2.0 mm/min		
6.	short term, electrode layout P25mm/P25mm in transformer oil equivalent to IEC 60296		

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