

Bakelite® X 22

Phenolic

Hexion Inc.

Message:

Product Description

Phenolic moulding compound, mainly organically filled

Application Areas

Pot handles, operating controls, electrical isolators, housing parts

General Information			
Filler / Reinforcement	Organic		
Uses	Cookware		
	Handles		
	Housings		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40	g/cm ³	ISO 1183
Apparent Density	0.64	g/cm ³	ISO 60
Molding Shrinkage			ISO 2577
-- 1	0.60	%	
-- 2	0.90	%	
Water Absorption - 24h/23C	70.0	mg	ISO 62
Post Shrinkage			ISO 2577
-- 3	0.55	%	
-- 4	0.40	%	
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)	275	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2/1
Tensile Stress	55.0	MPa	ISO 527-2/5
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress ⁵	90.0	MPa	ISO 178
Compressive Stress	250	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	6.5	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	115	°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)	28	kV/mm	IEC 60243-1
Relative Permittivity (100 Hz)	14.5		IEC 60250
Dissipation Factor (100 Hz)	0.30		IEC 60250
Comparative Tracking Index (Solution A)	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm, Brown, Black)	V-0		UL 94
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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