

MAJORIS PBT 9238 30 FV

Polybutylene Terephthalate

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Message:

PBT 9238 30 FV is a glass fiber reinforced polybutylene terephthalate, fireproofed UL94 V0 for injection molding. Raised oxygen index, excellent dimensional stability, great rigidity and a high thermal behavior allowing a peak use temperature at 200°C.

APPLICATIONS

PBT 9238 30 FV is used for injection applications in electrotechnical industry: for example circuit breaker, fuse holder, electronic components (connectors). This product is available in a large variety of different colors to be supplied on request.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Rigidity, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Connector		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 3.00mm	0.70	%	ISO 294-4
Flow direction: 3.00mm	0.50	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	0.020	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	215	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11300	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	9600	MPa	ISO 178
Flexural Stress	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	210	°C	ISO 75-2/A
Melting Temperature	225	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	23	kV/mm	IEC 60243-1
Comparative Tracking Index			IEC 60112
Solution a	250	V	IEC 60112
Solution B	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Oxygen Index	32	%	ISO 4589-2
Additional Information			
Total Resistance of Insulation, NF C 26-210: 1e14 ohms			
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	230 - 240	°C	
Middle Temperature	240 - 250	°C	
Front Temperature	250 - 260	°C	
Mold Temperature	60.0 - 80.0	°C	

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