

MAJORIS PBT 9237 30 BV

Polybutylene Terephthalate

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Message:

PBT 9237 30 BV is a 30 % glass bead reinforced polybutylene terephthalate , intended for injection moulding. The product is available in natuel and black (PBT 9237 30 BV BLACK 8229) but other colours can be provided on request.

They combine high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability.

APPLICATIONS

PBT 9237 30 BV is intended for the injection moulding of electrical components and automotive applications including interior, exterior and electrical and mechanical systems, such as:

Electrical appliance components

Switches and connector housings

Dashboard components

Door handles and pillar trim

General Information			
Filler / Reinforcement	Glass beads, 30% filler by weight		
Features	Good dimensional stability		
	Good electrical performance		
	Good chemical resistance		
Uses	Electrical/Electronic Applications		
	Electrical housing		
	Switch		
	Connector		
	Car interior equipment		
	Car dashboard		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage	0.80 - 1.5	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ISO 527-2
Tensile Stress (Break)	51.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2

Flexural Modulus	3950	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	23	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	195	°C	ISO 75-2/B
1.8 MPa, not annealed	93.0	°C	ISO 75-2/A
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	23	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	4.60		ASTM D150
1 MHz	4.40		ASTM D150
Dissipation Factor			ASTM D150
100 Hz	9.0E-3		ASTM D150
1 MHz	0.012		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Oxygen Index	21	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	255 - 270	°C	
Mold Temperature	80.0 - 110	°C	
Injection Rate	Fast		
Injection instructions			

Back Pressure: Moderate

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