

MAJORIS PBT 9237 50 FV BLACK 8229

Polybutylene Terephthalate

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Message:

PBT 9237 50 FV BLACK 8229 is a 50 % glass fibre reinforced polybutylene terephthalate, intended for injection moulding. They combine high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability.

APPLICATIONS

PBT 9237 50 FV BLACK 8229 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 fiber reinforced material, 50% 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		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.72	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.30	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2
Tensile Stress (Break)	143	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	13500	MPa	ISO 178
Flexural Stress	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	52	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 (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	31	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	4.40		IEC 60250
1 MHz	4.10		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	2.2E-3		IEC 60250
1 MHz	0.016		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm, 30 sec)	750	°C	IEC 60695-2-13
Oxygen Index	20	%	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 - 120	°C	
Injection Rate	Fast		
Injection instructions			
Back Pressure: Moderate			

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