MAJORIS PBT 9237 20 M BLACK 8229

Polybutylene Terephthalate

AD majoris

Message:

PBT 9237 20 M BLACK 8229 is a 20 % mineral filled polybutylene terephthalate , intended for injection moulding. The product is available in black and natural (PBT 9237 20 M) 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 20 M 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	Mineral filler, 20% 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	1.46	g/cm³	ISO 1183
Molding Shrinkage - Flow	1.0 - 1.5	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.15	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2

Flexural Modulus	6600	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.0	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength (23°C)	33	kJ/m^2	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	200	°C	ISO 75-2/A
Ball Indentation Temperature	208	°C	NF C 62-411
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)	37	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	255 - 270	°C	
Mold Temperature	70.0 - 100	°C	
Injection Rate	Fast		

Injection instructions

Back Pressure: Moderate

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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