MAJORIS PBT 9383 30 FV halogen free

Polybutylene Terephthalate

AD majoris

Message:

PBT 9383 30FV is a 30 % glass fibre reinforced polybutylene terephthalat, halogen free, intended for injection moulding.
Classified V0 according to UL94 norm, PBT 9383 30FV is available in natural but other colours can be provided on request.
This technical datasheet is valid for all our compounds PBT 9383 30FV : natural or other colours.
PBT 9383 30FV combines high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability.
APPLICATIONS
PBT 9383 30FV is intended for the injection moulding of electrical components and automotive applications including interior, exterior and electrical and mechanical systems.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability Good electrical performance Good chemical resistance Halogen-free		
Uses	Electrical/Electronic Applications Application in Automobile Field Car interior parts Automotive exterior parts		
Appearance	Available colors Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.60	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.90	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9200	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	10	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	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	180	°C	ISO 75-2/A
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	23	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.800 mm	V-2		UL 94
1.60 mm	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	IEC 60695-2-12
2.00 mm	960	°C	IEC 60695-2-12
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Rate	Fast		
Injection instructions			

Back Pressure: Moderate

Recommended distributors for this material

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