

SLOVASTER® B1 GF 45

Polybutylene Terephthalate

Plastcom

Message:

PBT for injection moulding, chemically reinforced with 45% glass fibre. Characterised by excellent properties also at minus temperatures like eg. modulus of elasticity in tension and bending, tensile strength, toughness. Does not absorb water, that means that identical properties are maintained also in wet environment. Melt is characterised by very good rheology, which enables manufacturing of extremely multiple products with complicated downflow-path. Anisotropy of shrinkage is much better in comparison with PA, what influences the manufacturing of round, cylindrical or other hole products. Application in the automotive, electrical and engineering industry - connectors of cable harnesses, car-door locks, connection links, grips etc. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Features	Chemically Coupled		
	Low Temperature Toughness		
	Low to No Water Absorption		
Uses	Automotive Applications		
	Connectors		
	Electrical/Electronic Applications		
	Engineering Parts		
	Flexible Grips		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PBT		
Physical	Nominal Value	Unit	Test Method
Density	1.71	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.61	%	
Flow	0.55	%	
Viscosity Number	97.0	cm ³ /g	ISO 307
Water Content	0.050	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16800	MPa	ISO 527-2
Tensile Stress (Yield)	160	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	13400	MPa	ISO 178

Flexural Stress	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	10	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	65	kJ/m ²	
23°C	70	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	205	°C	ISO 75-2/B
Vicat Softening Temperature	215	°C	ISO 306/B
Melting Temperature (DSC)	200 to 220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	33	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 280	°C	
Mold Temperature	50.0 to 90.0	°C	
Injection Pressure	60.0 to 100	MPa	

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