

SLOVASTER® B GB 40

Polybutylene Terephthalate

Plastcom

Message:

PBT for injection moulding, chemically reinforced with 40% glass beads. 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, cylindric 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 Bead,40% Filler by Weight		
Features	Chemically Coupled		
	Low to No Water Absorption		
Uses	Automotive Applications		
	Connectors		
	Electrical/Electronic Applications		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.50	%	
Flow	0.40	%	
Water Content	0.050	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6300	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	5100	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m ²	
23°C	3.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179
-20°C	42	kJ/m ²	
23°C	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	135	°C	ISO 75-2/B
Vicat Softening Temperature	245	°C	ISO 306/B
Melting Temperature (DSC)	228	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms·cm	IEC 60093
Electric Strength	16	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	230 to 270	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Pressure	50.0 to 80.0	MPa	

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