SLOVASTER® B1 GF 20 000/2

Polybutylene Terephthalate

Plastcom

Message:

PBT for injection moulding, pure without lubricant, chemically reinforced with 20% glass fibre, excellent flow. Characterised by excellent properties also at minus temperatures like eg. modulus of elasticity in tension and bending, tensial 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			
UL YellowCard	E359603-101375902		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Chemically Coupled Good Flow 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	1.45	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.8	%	
Flow	0.43	%	
Water Content	0.050	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7500	MPa	ISO 527-2
Tensile Stress (Yield)	120	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2

Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	7.0	kJ/m²	
23°C	7.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	50	kJ/m²	
23°C	60	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	185	°C	ISO 75-2/B
Vicat Softening Temperature	210	°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	31	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	425	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	100	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	60.0 to 100	MPa	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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