

SLOVASTER® B1 GF 10 FRX 5

Polybutylene Terephthalate

Plastcom

Message:

PBT with the content of 10 % chemically bound glass fibre and with the halogen freeflame retardant. Anisotropy of shrinkage enables the injection moulding of round, cylindrical or other hole products. Application in engineering, electrical and automotive industry. High mechanical properties also in conditioned state. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Chemically Coupled		
	Flame Retardant		
	Halogen Free		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PBT		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm³	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	0.60	%	
Flow	0.50	%	
Water Content	0.050	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4850	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	%	ISO 527-2
Flexural Modulus	3200	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	2.1	kJ/m²	
23°C	2.3	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179
-20°C	35	kJ/m ²	
23°C	35	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	145	°C	ISO 75-2/B
Vicat Softening Temperature	203	°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	30	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Glow Wire Ignition Temperature (1.50 mm)	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	50.0 to 90.0	°C	
Injection Pressure	60.0 to 100	MPa	

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