

# SLOVASTER® B/A GF 20

Polybutylene Terephthalate + ASA

Plastcom

Message:

PBT/ASA for injection moulding, chemically reinforced with 20% glass fibre. 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			
Filler / Reinforcement	Glass Fiber,20% 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/ASA		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm <sup>3</sup>	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	1.1	%	
Flow	0.93	%	
Water Content	0.050	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2
Tensile Stress (Yield)	100	MPa	ISO 527-2
Tensile Strain (Yield)	2.7	%	ISO 527-2
Flexural Modulus	6500	MPa	ISO 178
Flexural Stress	165	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	4.6	kJ/m <sup>2</sup>	
23°C	4.8	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-20°C	39	kJ/m <sup>2</sup>	
23°C	37	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	156	°C	ISO 75-2/B
Vicat Softening Temperature	155	°C	ISO 306/B
Melting Temperature (DSC)	223 to 225	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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 80.0	°C	
Injection Pressure	60.0 to 100	MPa	

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