

SLOVAMID® 6 GB 20

Polyamide 6

Plastcom

Message:

Nearly ideal anisotropy of shrinkage in the vertical and in the horizontal direction is established. Manufacturing of exact mouldings. Disadvantage are the relatively low mechanical properties, these can be modified by addition of GF, as a result of which the anisotropy worsens. PA 6 for injection moulding, reinforced with 20% glass beads offers high grade surface brightness, low rolling resistance force. Application: eg. throttle valves for air piping. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Bead,20% Filler by Weight		
Features	Good Dimensional Stability High Gloss		
Appearance	Colors Available Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.6	%	
Flow	1.5	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Yield)	45.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	1.5	kJ/m ²	
23°C	2.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	45	kJ/m ²	
23°C	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	50.0	°C	ISO 75-2/B
Vicat Softening Temperature	200	°C	ISO 306/B
Melting Temperature (DSC)	220	°C	ISO 3146
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	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	70.0 to 100	MPa	

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