SLOVAMID® 66 GF 20/1M

Polyamide 66

Plastcom

Message:

Chemically reinforced with 20 % glass fibre, suitable for mouldings with high strength and toughness also at minus temperatures. Used in the automotive, engineering and electrical industry. With the increasing content of FG also the toughness, tensile and bending strength increase, the shrinkage decreases and the heat application increases up to 250°C. Application: hobby tools, covers of electrotools, electromotors, cooling screws of blowers, gear wheels, carrying parts in the automotive industry like eg. brake cables. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	UV Stabilizer		
Features	Chemically Coupled Good Toughness High Strength Low Temperature Toughness		
Uses	Automotive Applications Electrical/Electronic Applications Engineered Applications Gears Power/Other Tools		
Appearance	Colors Available Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.28	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.1	%	
Flow	0.80	%	
Water Content	0.15	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7700	MPa	ISO 527-2
Tensile Stress (Yield)	135	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	5200	MPa	ISO 178

Flexural Stress	180	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	5.0	kJ/m²	
23°C	5.5	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	37	kJ/m²	
23°C	40	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	250	°C	ISO 75-2/B
Vicat Softening Temperature	250	°C	ISO 306/B
Melting Temperature (DSC)	260	°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 280	°C	
Mold Temperature	50.0 to 90.0	°C	
Injection Pressure	80.0 to 120	MPa	

Recommended distributors for this material

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