SLOVAMID® 66 GF 20 HI

Polyamide 66

Plastcom

Message:

Chemically reinforced with 20% glass beads, suitable for mouldings with high strength and toughness also at minus temperatures. Used in the automotive, engineering and electrical industry. It achieves higher rates of tensile strength and modulus of elasticity also in conditioning state when compared with PA 6 GF. 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	Impact Modifier		
Features	Chemically Coupled High Strength Impact Modified Low Temperature Toughness Ultra High Toughness		
Uses	Automotive Applications Electrical/Electronic Applications Engineering Parts Gears		
Appearance	Colors Available Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.21	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.2	%	
Flow	0.80	%	
Water Content	0.15	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5000	MPa	ISO 527-2
Tensile Stress (Yield)	100	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	4700	MPa	ISO 178

Flexural Stress	150	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	8.0	kJ/m²	
23°C	12	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	45	kJ/m²	
23°C	55	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
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Comparative Tracking Index	400	V	IEC 60112
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	280 to 300	°C	
Mold Temperature	60.0 to 90.0	°C	
Injection Pressure	70.0 to 120	MPa	

Recommended distributors for this material

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