SLOVAMID® 66 GF 30 TS

Polyamide 66

Plastcom

Message:

PA 66 for injection moulding, chemically reinforced with 30 % glass fibre, heat stabilized, suitable for high strength and high impacted mouldings. Used in automotive, engineering and electrical industry. Can be used in environment, in which long time heat impact of up to 200°C occurs. Decrease in tensile strength by 50 % after 5000 hours at 170°C. The heat stabilization predetermines the products to environment with long time heat exposure, like eg. intake pipes, cylinder heads, induction coils, carrying parts in the motor fixing in the motor area. Application: hobby tools, gears, covers of electric tools, cooling water distribution in the automotive industry. Delivered in black.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled Heat Stabilized High Strength		
Uses	Automotive Applications Electrical/Electronic Applications Gears Power/Other Tools		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.36	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	0.74	%	
Water Content	0.15	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9500	MPa	ISO 527-2
Tensile Stress (Yield)	165	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	7400	MPa	ISO 178
Flexural Stress	225	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	10	kJ/m²	

23°C	10	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	50	kJ/m²	
23°C	60	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	

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