

SLOVAMID® 6 GF 35 TS

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically reinforced with 35% glass fibre, heat stabilized, mouldings resistant against long-time heat impact up to 170°C. Used in environment, where long-time temperatures up to 200°C occur. Decrease in tensile strength by 50% after 5000 hours at 170°C. Application: grips of electrottools, hobby tools, gears, covers of electric appliances. Heat stabilization predetermines these prodcts to an environment with longtime heat stress like eg.: intake piping, cylinder heads, induction coils, carrying parts in the motor fixing in the motor area. Delivered in black colour.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
Uses	Appliances		
	Electrical/Electronic Applications		
	Flexible Grips		
	Gears		
	Power/Other Tools		
Appearance	Black		
	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	Nominal Value	Unit	Test Method
Density	1.38	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	0.80	%	
Flow	0.60	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10500	MPa	ISO 527-2
Tensile Stress (Yield)	190	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	6850	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	13	kJ/m ²	
23°C	15	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	95	kJ/m ²	
23°C	100	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	215	°C	ISO 75-2/B
Vicat Softening Temperature	200	°C	ISO 306/B
Melting Temperature (DSC)	222	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+13	ohms	IEC 60093
Volume Resistivity	5.0E+13	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Comparative Tracking Index	475	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	250 to 270	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Pressure	70.0 to 120	MPa	

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