SLOVAMID® 6 GF 30 HTS

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically reinforced with 30% glass fibre, heat stabilized, mouldings resistant against longtime heat impact up to 170°C, resistive against hydrolysis. 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 electrotools, 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,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled Heat Stabilized Hydrolysis Resistant		
Uses	Appliances Electrical/Electronic Applications Flexible Grips Gears Power/Other Tools		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.33	g/cm³	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	1.5	%	
Flow	0.58	%	
Water Content	0.15	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Yield)	150	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	7000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179

-20°C	10	kJ/m²	
23°C	11	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)	200	°C	ISO 75-2/B
Vicat Softening Temperature	210	°C	ISO 306/B
Melting Temperature (DSC)	220	°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	575	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	

Recommended distributors for this material

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