SLOVAMID® 6 GF 25 TS

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically strengthened with 25% of glass fibre, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electrotools, hobby tools, gears, covers of electric appliances, cooling skrews of blowers, electromotors, carrying parts in the automotive industry. With the increasing content of GF also the toughness, bending and tensile strength increase as well as the heat application increases up to 250°C and the shrinkage decreases. GF 60 achieves modulus 18000 MPa - of the aluminium alloy values. Delivered in natural mode and in the full RAL colour scale.

General Information	
Filler / Reinforcement	Glass Fiber,25% Filler by Weight
Additive	Heat Stabilizer
Features	Good Toughness Heat Stabilized High Heat Resistance High Strength Low Shrinkage
Uses	Appliance Components Automotive Applications Consumer Applications Electrical Housing Electrical/Electronic Applications Engineering Parts Flexible Grips Tooling
Appearance	Colors Available Natural Color
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.30	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	1.4	%	
Flow	0.50	%	
Water Content	0.15	%	ISO 960

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7400	MPa	ISO 527-2

Tensile Stress (Yield)	140	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	6300	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	7.0	kJ/m^2	
23°C	10	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179
-20°C	27	kJ/m^2	
23°C	50	kJ/m^2	
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
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	70.0 to 90.0	°C	
Injection Pressure	70.0 to 120	MPa	

Recommended distributors for this material

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