SLOVAMID® 6 GF 50 000/2M

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically strengthened with 50% 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. Very good surface finish of products and very good processability. Delivered in natural mode and in the full RAL colour scale.PA 6 for injection moulding, lightly impacted

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer
Features	Good Processability Good Surface Finish Good Toughness Heat Stabilized High Strength
Uses	Appliance Components Automotive Applications Consumer Applications Electrical/Electronic Applications Engineering Parts Gears Housings Power/Other Tools Tooling
Appearance	Colors Available Natural Color
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.60	%	
Flow	0.50	%	
Water Content	0.15	%	ISO 960

Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	14500	MPa	ISO 527-2
Tensile Stress (Yield)	210	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	12500	MPa	ISO 178
Flexural Stress	290	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	11	kJ/m^2	
23°C	13	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179
-20°C	80	kJ/m^2	
23°C	85	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	212	°C	ISO 306/B
Melting Temperature (DSC)	222	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+15	ohms	IEC 60093
Volume Resistivity	5.0E+15	ohms·cm	IEC 60093
Electric Strength	40	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	90.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	90.0 to 100	°C	
Injection Pressure	90.0 to 150	MPa	

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