

SLOVAMID® 6 GF 50 LTS

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.Delivered in natural 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		
	UV Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
	High Strength		
	Ultra High Toughness		
Uses	Appliances		
	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
	Flexible Grips		
	Gears		
	Power/Other Tools		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.2	%	
Flow	0.40	%	
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	15	kJ/m ²	
23°C	18	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	85	kJ/m ²	
23°C	95	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	210	°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	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+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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