

SLOVAMID® 6 GF 65/1M

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically strengthened with 65% 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 screws of blowers, electromotors, carrying parts in the automotive industry. Replacement of metal parts from ZAMAC and etc.Delivered in natural mode and in black.

General Information			
Filler / Reinforcement	Glass Fiber,65% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
	High Strength		
	Ultra High Toughness		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Gears		
	Metal Replacement		
	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	1.71	g/cm ³	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	0.30	%	
Flow	0.20	%	
Water Content	0.10	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22800	MPa	ISO 527-2
Tensile Stress (Yield)	270	MPa	ISO 527-2

Tensile Strain (Yield)	2.3	%	ISO 527-2
Flexural Modulus	18300	MPa	ISO 178
Flexural Stress	420	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	18	kJ/m ²	
23°C	26	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)	218	°C	ISO 75-2/B
Vicat Softening Temperature	222	°C	ISO 306/B
Melting Temperature (DSC)	222	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+14	ohms·cm	IEC 60093
Electric Strength	33	kV/mm	IEC 60243-1
Comparative Tracking Index	600	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	270 to 300	°C	
Mold Temperature	90.0 to 100	°C	
Injection Pressure	90.0 to 150	MPa	

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