SLOVAMID® 6 GF 25 LTS

Polyamide 6

Plastcom

Message:

With 25% glass fiber reinforced PA 6 for chemical injection molding has increased impact strength and toughness. Use in the production of structural parts for the automotive, electronics, machinery and consumer goods industries such as Holders of electrical hand tools, hobby equipment, gears, housings of electric appliances, mirrors carrier, air screws of the fans, etc. At a higher glass fiber content increases the impact strength, flexural and tensile strength, shrinkage decreases, the thermal application rises to 250°C. GF 60 obtains the module 18000MPa - aluminum alloy values. The product is supplied in natural form or in the colors of the RAL scale.

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Good Impact Resistance		
	Good Strength		
	Good Toughness		
Uses	Appliance Components		
	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Gears		
	Housings		
	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	1.30	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	7200	МРа	ISO 527-2
Tensile Stress (Yield)	130	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	6100	MPa	ISO 178

Flexural Stress	195	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	7.0	kJ/m²	
23°C	10	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	26	kJ/m²	
23°C	48	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
Flammability	Nominal Value	Unit	Test Method
Flame Rating	НВ		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	

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