SLOVAMID® 6 GF 30 FRG 2

Polyamide 6

Plastcom

Message:

With 30% glass fiber reinforced PA 6 for chemical injection molding has increased strength and toughness. Use in the production of structural parts in the automotive, electronics, machinery and consumer goods industry - eg Holders of electrical hand tools, hobby equipment, housing the electric equipment, gears, propellers for fans, electric motors. The halogen-free product is supplied in natural form or in the colors of the RAL scale.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant Good Strength Good Toughness Halogen Free		
Uses	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	1.38	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.58	%	
Flow	0.46	%	
Water Content	0.15	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9200	MPa	ISO 527-2
Tensile Stress (Yield)	165	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	8540	MPa	ISO 178

Flexural Stress	225	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	8.0	kJ/m²	
23°C	10	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	46	kJ/m²	
23°C	68	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	215	°C	ISO 75-2/B
Vicat Softening Temperature	225	°C	ISO 306/B
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Electric Strength	70	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
3.20 mm	V-2		
1.60 mm	V-1		
0.800 mm	V-0		
Glow Wire Ignition Temperature	850	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	70.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	

Recommended distributors for this material

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