

SLOVAMID® 6 NG1 GF 30 HLS

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically reinforced with 30% glass fibre, for mouldings with high strength and toughness, which are used in the automotive, very good weather and UV stabilisation. Determined for using in outside automotive applications like door handle, mirrors, etc. Delivered in natural mode and in the full RAL colour scale. Better price in comparison with the Slovamid line.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	UV Stabilizer		
Features	Chemically Coupled		
	Good Toughness		
	Good UV Resistance		
	Good Weather Resistance		
	High Strength		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Handles		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.1	%	
Flow	0.90	%	
Water Content	0.10	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9600	MPa	ISO 527-2
Tensile Stress (Yield)	170	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	7800	MPa	ISO 178
Flexural Stress	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179

-20°C	10	kJ/m ²	
23°C	12	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	75	kJ/m ²	
23°C	85	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	255	°C	ISO 75-2/B
Vicat Softening Temperature	245	°C	ISO 306/B
Melting Temperature (DSC)	222	°C	ISO 3146
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	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Pressure	70.0 to 100	MPa	

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