

SLOVAMID® 6 GF 20 FRG 3

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically reinforced with 20 % glass fibre, with halogen free flame retardant. Main features: flammability in accordance with UL 94 V2 at 1.6 mm, glow wire at 960°C, CTI 600. Application for the electrical industry: protectors, coil forms, covers, terminals. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Chemically Coupled		
	Flame Retardant		
	Halogen Free		
Uses	Electrical/Electronic Applications		
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)	2.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.81	%	
Flow	0.63	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2
Tensile Stress (Yield)	120	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	5800	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	7.0	kJ/m²	
23°C	8.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	50	kJ/m²	

23°C	55	kJ/m ²	
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)	222	°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	60	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-2		UL 94
Glow Wire Ignition Temperature (3.00 mm)	960	°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	50.0 to 70.0	°C	
Injection Pressure	70.0 to 100	MPa	

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