

SLOVAMID® 66 GF 30 FRA 5

Polyamide 66

Plastcom

Message:

PA 66 for injection moulding, reinforced with 30% glass fibre and halogen flame retardant. Application in electrical industry: breakers, coilforms, covers, terminals. Slightly decreased flammability, glow wire 960°C.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogenated		
Uses	Electrical/Electronic Applications		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.80	%	
Flow	0.70	%	
Water Content	0.10	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2
Tensile Stress (Yield)	175	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	8900	MPa	ISO 178
Flexural Stress	255	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	8.0	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	65	kJ/m ²	
23°C	70	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	250	°C	ISO 75-2/B
Vicat Softening Temperature	255	°C	ISO 306/B
Melting Temperature (DSC)	260	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Comparative Tracking Index	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Ignition Temperature (3.00 mm)	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	70.0 to 100	°C	
Injection Pressure	50.0 to 90.0	MPa	

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