

SLOVAMID® 66 GF 40 TS

Polyamide 66

Plastcom

Message:

PA 66 for injection moulding, chemically reinforced with 40% glass fibre, for mouldings with high strength and toughness, which are used in the automotive, electrical, building, engineering and hobby industry - holders of electric hand tools, hobby tools, gears, covers of electric tools, automobile mirror housings, cooling screws of blowers, electromotors, bearing parts in the automotive industry.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
	Gears		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/5.0 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.70	%	
Flow	0.40	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ISO 527-2
Tensile Stress (Yield)	190	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	8900	MPa	ISO 178
Flexural Stress	245	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	12	kJ/m ²	
23°C	14	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179
-20°C	85	kJ/m ²	
23°C	90	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	252	°C	ISO 75-2/B
Vicat Softening Temperature	255	°C	ISO 306/B
Melting Temperature (DSC)	262	°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	90.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 300	°C	
Mold Temperature	80.0 to 120	°C	
Injection Pressure	80.0 to 110	MPa	

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