

SLOVAMID® 66/6 CF 30

Polyamide 66/6 Copolymer

Plastcom

Message:

PA 6/66 for injection moulding, chemically strengthened with 30% of carbon fibre, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Delivered in black mode.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Chemically Coupled		
	Good Toughness		
	High Strength		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6/66		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.0	%	
Flow	0.89	%	
Water Content	0.10	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19500	MPa	ISO 527-2
Tensile Stress (Yield)	220	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	18000	MPa	ISO 178
Flexural Stress	330	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	4.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	50	kJ/m ²	
23°C	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	240	°C	ISO 75-2/B
Vicat Softening Temperature	205	°C	ISO 306/B
Melting Temperature (DSC)	260	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	280 to 310	°C	
Mold Temperature	90.0 to 120	°C	
Injection Pressure	100 to 150	MPa	

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