

SLOVAMID® 6 CF 20

Polyamide 6

Plastcom

Message:

Chemically reinforced with 20 % carbon fibre, suitable for mouldings with high strength and toughness also at minus temperatures. Used in the automotive, engineering and electrical industry. Application: hobby tools, covers of electrottools, electromotors, cooling screws of blowers, gear wheels, carrying parts in the automotive industry like eg. brake cables. Delivered in black color.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Chemically Coupled		
	High Strength		
	Low Temperature Toughness		
	Ultra High Toughness		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
	Gears		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.4	%	
Flow	0.68	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2
Tensile Stress (Yield)	230	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	4.0	kJ/m ²	
23°C	6.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179
-20°C	41	kJ/m ²	
23°C	50	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	200	°C	ISO 306/B
Melting Temperature (DSC)	220	°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	250 to 270	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Pressure	70.0 to 120	MPa	

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