

SLOVAMID® 6 BT

Polyamide 6

Plastcom

Message:

Basic type PA 6 for injection moulding, modified for general use, with excellent manufacturing properties. Use: automotive, engineering, electrical and consumer-goods industry - electrical tools, fasteners, clamps, hobby tools, toys. Delivered in the natural mode and in the full RAL colour scale.

General Information			
Features	General Purpose		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
	Fasteners		
	General Purpose		
	Toys		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.8	%	
Flow	1.8	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	1.5	kJ/m ²	
23°C	1.6	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	80	kJ/m ²	

23°C	120	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	50.0	°C	ISO 75-2/B
Vicat Softening Temperature	190	°C	ISO 306/B
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Electric Strength	18	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	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	60.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	

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