

SLOVAMID® 6 FRC 3

Polyamide 6

Plastcom

Message:

Determined for electrotechnical use. Delivered in natural colour. PA 6 for injection moulding with increased flammability resistance, with nonhalogen and phosphorus flame retardant. Excellent flow of the material predetermines it for the manufacturing of complicated small and large surface mouldings. Possible use for products with wall thickness from 0.5 mm. High grade brightness also at coloured types. Delivered in the full RAL colour scale.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Flow		
	Halogen Free		
	High Gloss		
Uses	Electrical/Electronic Applications		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	0.87	%	
Flow	1.2	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	3200	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m ²	
23°C	2.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	110	kJ/m ²	

23°C	120	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Vicat Softening Temperature	200	°C	ISO 306/B
Melting Temperature (DSC)	222	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Glow Wire Ignition Temperature (3.00 mm)	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	70.0 to 100	MPa	

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