

Slovamid 6 BT LS

Polyamide 6

Plastcom



Prospector

Product Description

PA 6 for injection moulding with the content of UV stabilizer predetermines products for external use, eg. seats for sport stadiums, covers of electrical appliances. Delivered in natural mode and in the full RAL colour scale.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• UV Stabilizer		
Features	• Good UV Resistance		
Uses	• Electrical Housing	• Outdoor Applications	• Seats
Appearance	• Colors Available	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA 6		

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	1.8	%	
Flow	1.8	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Yield)	82.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178
Flexural Strength	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	1.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	75	kJ/m ²	
23°C	120	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	50.0	°C	
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	ohm·cm	IEC 60093
Comparative Tracking Index	600	V	Internal Method
Electric Strength	18	kV/mm	IEC 60243-1

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL	HB		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12

Additional Information	Nominal Value	Unit	Test Method
Water Content	0.15	%	ISO 960

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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Notes

¹ Typical properties: these are not to be construed as specifications.

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Revision History

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