

SLOVAMID® 6 HI/1 TLS

Polyamide 6

Plastcom

Message:

PA 6 with the content of thermoplastic kaoutchouc. Impacted, for mouldings with high toughness either at minus temperatures, suitable for external use, eg. ski shoes, sports and safety helmets, protection ledges of the car-doors. Delivered in natural mode and in the full RAL colour scale.

General Information			
Additive	Impact Modifier		
	Unspecified Additive		
Features	Impact Modified		
	Low Temperature Toughness		
	Ultra High Toughness		
Uses	Automotive Applications		
	Safety Helmets		
	Sporting Goods		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	2.0	%	
Flow	2.1	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2250	MPa	ISO 527-2
Tensile Stress (Yield)	58.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	1930	MPa	ISO 178
Flexural Stress	73.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	16	kJ/m ²	

23°C	37	kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179	
-20°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	55.0	°C	ISO 75-2/B
Vicat Softening Temperature	180	°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	850	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	50.0 to 60.0	°C	
Injection Pressure	80.0 to 150	MPa	

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