

SLOVAMID® 66 HI/1

Polyamide 66

Plastcom

Message:

Modified with thermoplastic reactive caoutchouc, determined for mouldings with high toughness also at minus temperatures. Eligible application for ski-shoes, helmets for sport and other safety use /hockey, building/, protection frames of cardoors. Withstands high dynamic stress up to - 40°C. Delivered in natural mode and in the full RAL colour scale.

General Information			
Additive	Impact Modifier		
Features	Good Toughness		
	Impact Modified		
	Low Temperature Toughness		
Uses	Automotive Applications		
	Safety Helmets		
	Sporting Goods		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	2.8	%	
Flow	3.5	%	
Water Content	0.15	%	ISO 960
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2230	MPa	ISO 527-2
Tensile Stress (Yield)	58.0	MPa	ISO 527-2
Tensile Strain (Yield)	28	%	ISO 527-2
Flexural Modulus	2070	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	10	kJ/m ²	
23°C	44	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)	59.0	°C	ISO 75-2/B
Vicat Softening Temperature	190	°C	ISO 306/B
Melting Temperature (DSC)	260	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	33	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	

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