

SLOVAMID® 66 SHI

Polyamide 66

Plastcom

Message:

Modified reactive thermoplastic rubber, moldings designed for high toughness even at low temperatures. Appropriate use of ski boots, helmets for sports and other security applications / hockey, building /, car door moldings, bear high dynamic stresses up to - 40°C. Supplied in natural finish and a range of RAL color scale.

General Information			
Additive	Impact Modifier		
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 66		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	1.0	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	950	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	50	%	ISO 527-2
Flexural Modulus	800	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	45	kJ/m ²	
23°C	No Break		

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)	43.0	°C	ISO 75-2/B
Vicat Softening Temperature	154	°C	ISO 306/B
Melting Temperature (DSC)	260	°C	ISO 3146
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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