

SLOVAMID® 66 BT TS

Polyamide 66

Plastcom

Message:

Modified for general use, with excellent manufacturing properties, characterized by high strength and toughness also at minus temperatures. Used in automotive, electrical, engineering and consumer goods industry. Application: electric tools, gear wheels, clamps, fasteners, toolbodies, webbing slings for cable harnesses.

General Information				
Additive	Heat Stabilizer			
Features	Good Processability			
	Heat Stabilized			
	High Strength			
	Low Temperature Toughness			
	Ultra High Toughness			
Uses	Automotive Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Fasteners			
	Gears			
	Power/Other Tools			
Appearance	Colors Available			
	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA 66			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/0.325 kg)	4.0	--	g/10 min	ISO 1133
Molding Shrinkage				STM 64 0808
Across Flow	1.9	--	%	
Flow	1.8	--	%	
Water Content	0.15	--	%	ISO 960
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	2200	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	20	%	ISO 527-2
Flexural Modulus	2700	1900	MPa	ISO 178

Flexural Stress	100	85.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-20°C	2.0	7.0	kJ/m ²	
23°C	5.0	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179
-20°C	90 kJ/m ²	No Break		
23°C	100 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	68.0	--	°C	ISO 75-2/B
Vicat Softening Temperature	250	--	°C	ISO 306/B
Melting Temperature (DSC)	260	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+14	--	ohms·cm	IEC 60093
Electric Strength	30	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Glow Wire Ignition Temperature	960	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Pressure	70.0 to 120		MPa	

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