

# SLOVAMID® 66 FRC 3

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. Possible use for products with wall thickness from 0.5 mm. High grade brightness also at coloured types. Delivered in the full RAL colour scale.

General Information			
Features	General Purpose		
	High Gloss		
	High Strength		
	Low Temperature Toughness		
	Ultra High Toughness		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Fasteners		
	Gears		
	Power/Other Tools		
Appearance	Colors Available		
	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 66		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm <sup>3</sup>	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	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	1.5	kJ/m <sup>2</sup>	
23°C	2.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-20°C	90	kJ/m <sup>2</sup>	
23°C	100	kJ/m <sup>2</sup>	
Thermal	Nominal Value	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	Nominal Value	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	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Injection	Nominal Value	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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