

MAJORIS UG 500 FL

Polyamide 66

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Message:

UG 500 FL is a special 50 % long glass fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

UG 500 FL has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

General Information			
Filler / Reinforcement	Long Glass Fiber,50% Filler by Weight		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.50	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19500	MPa	ISO 527-2
Tensile Stress (Break)	260	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	16100	MPa	ISO 178
Flexural Stress	415	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	59	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	258	°C	ISO 75-2/A
Melting Temperature (DSC)	256	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
Oxygen Index	23	%	ISO 4589-2

Injection	Nominal Value	Unit
Drying Temperature	90.0	°C
Drying Time	4.0	hr
Rear Temperature	290 to 305	°C
Middle Temperature	285 to 300	°C
Front Temperature	280 to 295	°C
Processing (Melt) Temp	275 to 280	°C
Mold Temperature	90.0 to 120	°C
Injection Pressure	95.0 to 120	MPa
Injection Rate	Fast	
Holding Pressure	60.0 to 80.0	MPa
Screw L/D Ratio	15.0:1.0 to 20.0:1.0	

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