

# VENYL UG360

Polyamide 66

AD majoris

## Message:

VENYL UG360 is a 30% glass fibre reinforced polyamide 66 with characteristics of resistance to wear and friction for injection moulding.

### APPLICATIONS

VENYL UG360 has been developed especially for very demanding applications in automotive industry and electrical parts requiring excellent friction characteristics and wear resistance.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Wear Resistance		
		Low Friction		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.40 to 0.70	--	%	
Water Absorption (23°C, 24 hr)	0.40	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9700	6650	MPa	ISO 527-2
Tensile Stress (Break)	155	105	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2
Flexural Modulus	9200	6500	MPa	ISO 178
Flexural Stress	220	175	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	12	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	31	39	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	205	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	196	--	°C	ISO 75-2/A
Melting Temperature (DSC)	256	--	°C	ISO 3146

Flammability	Dry	Conditioned	Test Method
Flame Rating (1.60 mm)	HB	--	UL 94
Injection	Dry	Unit	
Drying Temperature	90.0		°C
Drying Time	4.0		hr
Rear Temperature	285 to 300		°C
Middle Temperature	280 to 295		°C
Front Temperature	275 to 290		°C
Nozzle Temperature	265 to 280		°C
Mold Temperature	90.0 to 120		°C
Injection Pressure	85.0 to 110		MPa
Injection Rate	Fast		
Holding Pressure	50.0 to 70.0		MPa
Screw L/D Ratio	15.0:1.0 to 20.0:1.0		

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