

VENYL UW500

Polyamide 66

AD majoris

Message:

VENYL UW500 is a 50% glass bead filled polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UW500 has been developed especially for very demanding applications in automotive industry and electrical parts.

VENYL UW500 is available in black (VENYL UW500 - 8229) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass Bead,50% Filler by Weight		
Features	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
Appearance	Black		
	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Molding Shrinkage	0.60 to 1.0	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2
Tensile Stress (Break)	95.0	MPa	ISO 527-2
Tensile Strain (Break)	17	%	ISO 527-2
Flexural Modulus	5700	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	34	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A
Melting Temperature (DSC)	256	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Injection	Nominal Value	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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