VENYL UG500

Polyamide 66

AD majoris

Message:

VENYL UG500 is a 50 % glass fibre reinforced polyamide 66, intended for Injection moulding.
APPLICATIONS
VENYL UG500 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL UG500 is available in both natural and black (VENYL UG500-8229) but other colours can be provided on request.

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Features	Recyclable Material
Uses	Automotive Applications Electrical Parts
Appearance	Black Colors Available Natural Color
Forms	Pellets
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm³	ISO 1183
Molding Shrinkage	0.20 to 0.60	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16000	13000	MPa	ISO 527-2
Tensile Stress (Break)	250	170	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2
Flexural Modulus	13000	9500	MPa	ISO 178
Flexural Stress	345	345	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	18	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	50	55	kJ/m²	ISO 179

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A

Melting Temperature (DSC)	256	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	DIN 53482
Volume Resistivity	1.0E+14	1.0E+12	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	750	--	°C	IEC 60695-2-12
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
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			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China