

VENYL SG500

Polyamide 6

AD majoris

Message:

VENYL SG500 is a 50% glass fibre reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SG500 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SG500 is available in natural 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		Colors Available		
		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Molding Shrinkage	0.20 to 0.40	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	18200	--	MPa	ISO 527-2
Tensile Stress (Break)	225	--	MPa	ISO 527-2
Tensile Strain (Break)	2.6	--	%	ISO 527-2
Flexural Modulus	15200	--	MPa	ISO 178
Flexural Stress	380	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	18	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	98	--	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	DIN 53482
Volume Resistivity	1.0E+17	1.0E+13	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	380	--	V	IEC 60112
Flammability	Dry	Conditioned	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	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	245 to 265		°C	
Middle Temperature	250 to 270		°C	
Front Temperature	255 to 275		°C	
Nozzle Temperature	255 to 275		°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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT