

# VENYL SW108 - 7838

Polyamide 6  
AD majoris

Message:

VENYL SW108 - 7838 is a 15 % glass bead reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SW108 - 7838 has been developed especially for very demanding applications in automotive industry and electrical parts requiring excellent combination between thermal and mechanical properties, good surface finish and good compression strength.

VENYL SW108 - 7838 is available grey but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass Bead,15% Filler by Weight		
Features		Good Compressive Strength		
		Good Surface Finish		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Colors Available		
		Grey		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.60 to 1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	1150	MPa	ISO 527-2
Tensile Stress (Break)	80.0	52.0	MPa	ISO 527-2
Tensile Strain (Break)	30	120	%	ISO 527-2
Flexural Modulus	3150	1000	MPa	ISO 178
Flexural Stress	138	72.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.7	26	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	--	°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+14	1.0E+12	ohms·cm	DIN 53482
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Rear Temperature	265 to 280		°C	
Middle Temperature	255 to 270		°C	
Front Temperature	255 to 270		°C	
Nozzle Temperature	240 to 275		°C	
Mold Temperature	60.0 to 100		°C	
Injection Pressure	60.0 to 90.0		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