VENYL SWGB300H

Polyamide 6

AD majoris

Message:

VENYL SWGB300H is a 30% glass fibre/bead reinforced polyamide 6 intended for Injection moulding.
APPLICATIONS
VENYL SWGB300H has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties, good surface finish and good compression strength.
VENYL SWGB300H is available natural but other colours can be provided on request.

General Information				
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight			
Features	Good Compressive Strength Good Surface Finish 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	1.36	--	g/cm³	ISO 1183
Molding Shrinkage	0.60 to 1.1	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	7100	4200	MPa	ISO 527-2
Tensile Stress (Break)	120	95.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.0	%	ISO 527-2
Flexural Modulus	5300	3450	MPa	ISO 178
Flexural Stress	195	110	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	5.5	9.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	33	52	kJ/m²	ISO 179
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				

0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°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
Comparative Tracking Index (Solution A)	500	--	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		
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			

Recommended distributors for this material

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