

VENYL SWGB307H

Polyamide 6

AD majoris

Message:

VENYL SWGB307H is a 30% glass fibre/bead reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SWGB307H has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties, UV stabilized, good surface finish and good compression strength

VENYL SWGB307H is available in black (VENYL SWGB307H-8229) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass Bead\Glass Fiber,30% Filler by Weight		
Additive		UV Stabilizer		
Features		Good Compressive Strength		
		Good Surface Finish		
		Good UV Resistance		
		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Black		
		Colors Available		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage	0.60 to 1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6400	3900	MPa	ISO 527-2
Tensile Stress (Break)	105	85.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.5	%	ISO 527-2
Flexural Modulus	4500	3000	MPa	ISO 178
Flexural Stress	170	95.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	29	48	kJ/m ²	ISO 179

Notched Izod Impact Strength	5.0	8.5	kJ/m ²	ISO 180
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		
Drying Temperature	90.0		°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			

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