VENYL UWGB300H

Polyamide 66

AD majoris

Message:

VENYL UWGB300H is a 30% glass fibre/bead reinforced polyamide 66 intended for Injection moulding.
APPLICATIONS
VENYL UWGB300H has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL UWGB300H is available in both natural and black (VENYL UWGB300H BLACK 8229) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight		
Features	Recyclable Material		
Uses	Automotive Applications Electrical Parts		
Appearance	Black Colors Available Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.36	g/cm³	ISO 1183
Molding Shrinkage	0.60 to 0.90	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	117		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7500	MPa	ISO 527-2
Tensile Stress (Break)	174	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	6900	MPa	ISO 178
Flexural Stress	265	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	29	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	°C	ISO 75-2/A

Melting Temperature (DSC)	256	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	ohms	DIN 53482
Volume Resistivity	1.0E+14	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	**Nominal Value**	**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	**Nominal Value**	**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

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