VENYL SG300 - 8317

Polyamide 6

AD majoris

Message:

VENYL SG300 - 8317 is a 30% glass fibre reinforced polyamide 6 intended for Injection moulding.
APPLICATIONS
VENYL SG300 - 8317 has been developed especially for very demanding applications in automotive industry and electrical parts.
Products requiring excellent combination between thermal and mechanical properties.
VENYL SG300 - 8317 is available in both grey and natural (VENYL SG300) but other colours can be provided on request.

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Features	Recyclable Material			
Uses	Automotive Applications Electrical Parts			
Appearance	Colors Available Grey Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.36	--	g/cm^3	ISO 1183
Molding Shrinkage	0.40 to 0.80	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	105	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	8500	5000	MPa	ISO 527-2
Tensile Stress (Break)	155	95.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.0	%	ISO 527-2
Flexural Modulus	7500	4600	MPa	ISO 178
Flexural Stress	250	175	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	12	18	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength	40	50	kJ/m^2	ISO 179
Notched Izod Impact	70	100	J/m	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°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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