

VENYL SG308 - 3121

Polyamide 6
AD majoris

Message:

VENYL SG308 - 3121 is a 35 % glass fibre reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SG308 - 3121 has been developed especially for very demanding applications in automotive industry and electrical parts. Products requiring excellent combination between thermal and mechanical properties.

VENYL SG308 - 3121 is available in both yellow (VENYL SG308 - 3171) but other colours can be provided on request.

General Information				
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Features		Recyclable Material		
Uses		Automotive Applications		
		Electrical Parts		
Appearance		Colors Available		
		Yellow		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	--	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.80	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	106	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	6800	MPa	ISO 527-2
Tensile Stress (Break)	195	110	MPa	ISO 527-2
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2
Flexural Modulus	10400	6650	MPa	ISO 178
Flexural Stress	300	185	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	14	21	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	45	55	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	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°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			

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