

VENYL SG209 - 8229

Polyamide 6

AD majoris

Message:

VENYL SG209 - 8229 is a 20 % glass fibre reinforced polyamide 6 intended for Injection moulding with laser printing additives.

APPLICATIONS

VENYL SG209 - 8229 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

General Information				
Filler / Reinforcement	Glass Fiber,20% Filler by Weight			
Features	Recyclable Material			
Uses	Automotive Applications			
	Electrical Parts			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.27	--	g/cm ³	ISO 1183
Molding Shrinkage	0.40 to 0.80	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (L-Scale)	102	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	4500	MPa	ISO 527-2
Tensile Stress (Break)	115	70.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.0	%	ISO 527-2
Flexural Modulus	5500	3300	MPa	ISO 178
Flexural Stress	200	120	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	30	40	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	1.0E+12	1.0E+11	ohms	DIN 53482
Volume Resistivity	1.0E+15	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	80.0 to 100		°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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