

VENYL SG507 - 8139

Polyamide 6

AD majoris

Message:

VENYL SG507 - 8139 is a 50 % glass fibre reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SG507 - 8139 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SG500 - 8139 is available in natural but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm ³	ISO 1183
Molding Shrinkage	0.20 to 0.40	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18200	MPa	ISO 527-2
Tensile Stress (Break)	225	MPa	ISO 527-2
Tensile Strain (Break)	2.6	%	ISO 527-2
Flexural Modulus	15200	MPa	ISO 178
Flexural Stress	380	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	18	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	98	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	DIN 53482

Volume Resistivity	1.0E+17	ohms·cm	DIN 53482
Comparative Tracking Index (Solution A)	380	V	IEC 60112
Flammability	Nominal Value	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	Nominal Value	Unit	
Drying Temperature	80.0	°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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