

VENYL SG307 - 8139

Polyamide 6

AD majoris

Message:

VENYL SG307 - 8139 is a 30 % glass fibre reinforced polyamide 6 intended for Injection moulding.

APPLICATIONS

VENYL SG307 - 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 SG307 - 8139 is available in both grey and natural (VENYL SG307) 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			

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