

# VENYL VG108 - 8139

Polyamide 66/6 Copolymer

AD majoris

Message:

VENYL VG108 - 8139 is a 15% glass fibre reinforced copolyamide 66/6 intended for Injection moulding.

APPLICATIONS

VENYL VG108 - 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 VG108 - 8139 is available in both black standard (VENYL VG108 - 8229) and natural (VENYL VG108) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Copolymer		
	Recyclable Material		
Uses	Automotive Applications		
	Electrical Parts		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	5400	MPa	ISO 178
Flexural Stress	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	28	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	230	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A

Melting Temperature (DSC)	242	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index	21	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Rear Temperature	260 to 270	°C	
Middle Temperature	255 to 265	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	260 to 265	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Pressure	85.0 to 100	MPa	
Injection Rate	Fast		
Holding Pressure	50.0 to 60.0	MPa	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0		

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#### Recommended distributors for this material

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