

VENYL VG307 - 8020

Polyamide 66/6 Copolymer

AD majoris

Message:

VENYL VG307 - 8020 is a 30% glass fibre reinforced copolyamide 66/6 intended for Injection moulding.

APPLICATIONS

VENYL VG307 - 8020 has been developed especially for very demanding applications in automotive industry and electrical parts.

Products requiring excellent combination between thermal and mechanical properties.

VENYL VG307 - 8020 is available in both black standard (VENYL VG307 - 8229) and natural (VENYL VG307) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Glass Fiber,30% 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	1.37	g/cm ³	ISO 1183
Molding Shrinkage	0.50	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2
Tensile Stress (Break)	185	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	8900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	40	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	241	°C	ISO 75-2/B
1.8 MPa, Unannealed	235	°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	23	%	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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