

VENYL SFC200

Polyamide 6

AD majoris

Message:

VENYL SFC200 is a 20% carbon fibre reinforced polyamide 6 lubrified intended for Injection moulding.

APPLICATIONS

VENYL SFC200 has been developed especially for demanding applications for good resistant final parts and rigidity combined with good stiffness and heat stabilization.

Products requiring excellent combination between thermal and mechanical properties.

VENYL SFC200 is available in black (VENYL SFC200).

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
	Lubricant		
Features	Good Stiffness		
	Heat Stabilized		
	Lubricated		
	Medium Rigidity		
	Recyclable Material		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Molding Shrinkage	0.15 to 0.35	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2
Tensile Stress (Break)	190	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	10700	MPa	ISO 178
Flexural Stress	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	60	kJ/m ²	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	220	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	IEC 60093
Volume Resistivity	1.0E+5	ohms·cm	DIN 53482
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°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	85.0 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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