

VENYL UFC300

Polyamide 66

AD majoris

Message:

VENYL UFC300 is a 30 % carbon fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UFC300 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 UFC 300 is available only in black (VENYL UFC300).

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Good Stiffness		
	Good Thermal Stability		
	High Rigidity		
	Recyclable Material		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Molding Shrinkage	0.20 to 0.40	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16300	MPa	ISO 527-2
Tensile Stress (Break)	194	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	17800	MPa	ISO 178
Flexural Stress	286	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	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Melting Temperature (DSC)	256	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	DIN 53482

Volume Resistivity	1.0E+4	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	285 to 300	°C	
Middle Temperature	280 to 295	°C	
Front Temperature	275 to 290	°C	
Nozzle Temperature	265 to 280	°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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