

VENYL UFC200

Polyamide 66

AD majoris

Message:

VENYL UFC200 is a 20 % carbon fibre reinforced polyamide 66 intended for Injection moulding.

APPLICATIONS

VENYL UFC200 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 UFC200 is available only in black (VENYL UFC200).

| General Information | | | |
|--|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Carbon Fiber,20% 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 | 1.24 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | 0.20 to 0.50 | % | |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 2.0 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 12000 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 155 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 3.0 | % | ISO 527-2 |
| Flexural Modulus | 12700 | MPa | ISO 178 |
| Flexural Stress | 229 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | 9.0 | kJ/m ² | ISO 179 |
| Charpy Unnotched Impact Strength | 35 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 250 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 240 | °C | ISO 75-2/A |
| Melting Temperature (DSC) | 256 | °C | ISO 3146 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+4 | ohms | DIN 53482 |

| | | | |
|------------------------|----------------------|---------|-------------|
| 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 | 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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