CP-Polymer-Technik Wellamid® 6000 CF 10 HWCP 10% Carbon Fiber Nylon 6, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Carbon Fiber Filled

Material Notes:

Information provided by CP-Polymer-Technik GmbH & Co. KG

Order this product through the following link:
http://www.lookpolymers.com/polymer_CP-Polymer-Technik-Wellamid-6000-CF-10-HWCP-10-Carbon-Fiber-Nylon-6-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	2.0 - 2.5 %	2.0 - 2.5 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0040 cm/cm @Thickness 4.00 mm	0.0040 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 4.00 mm	0.010 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	8.50 GPa	1230 ksi	ISO 527
Flexural Modulus	7.50 GPa	1090 ksi	DIN 52457
Charpy Impact Unnotched	3.00 J/cm² @Temperature 23.0 °C	14.3 ft-lb/in² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.600 J/cm² @Temperature 23.0 °C	2.86 ft-lb/in² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C @Temperature 23.0 - 80.0 °C	22.2 µin/in-°F @Temperature 73.4 - 176 °F	DIN 53752
Melting Point	215 °C	419 °F	Kofler
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 179
Vicat Softening Point	200 °C	392 °F	50 N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Stufe; IEC 707
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	Stufe; IEC 707

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 50 ohm-cm	<= 50 ohm-cm	IEC 93
Surface Resistance	<= 100 ohm	<= 100 ohm	ISO 3915

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 °C	500 - 554 °F	
Mold Temperature	70.0 - 100 °C	158 - 212 °F	

Descriptive Properties	Value	Comments
Back Pressure	Low	
Holding Pressure	High	
Injection Speed	Medium to High	
Screw Speed	High	

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