

CP-Polymer-Technik Wellamid® 6000 CF 30 HWCP 30% 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-30-HWCP-30-Carbon-Fiber-Nylon-6-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 - 2.3 %	1.8 - 2.3 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 4.00 mm	0.0020 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 4.00 mm	0.0080 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	5 mm/min; ISO 527
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
Tensile Modulus	21.0 GPa	3050 ksi	ISO 527
Flexural Modulus	18.5 GPa	2680 ksi	DIN 52457
Charpy Impact Unnotched	4.20 J/cm ² @Temperature 23.0 °C	20.0 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.700 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C @Temperature 23.0 - 80.0 °C	13.9 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)	220 °C	428 °F	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	200 °C	392 °F	50 N; ISO 306
Flammability, UL94	HB	HB	Stufe; IEC 707
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	Stufe; IEC 707
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 5.0 ohm-cm	<= 5.0 ohm-cm	IEC 93
Surface Resistance	<= 10 ohm	<= 10 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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