

CP-Polymer-Technik Wellamid® 6000 CF 30 HWCP 30% Carbon Fiber Nylon 6, Heat Stabilized, Conditioned

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-Conditioned.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, Starting when dry; 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	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	16.0 GPa	2320 ksi	ISO 527
Charpy Impact Unnotched	7.80 J/cm ² @Temperature 23.0 °C	37.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	215 °C	419 °F	Kofler

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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