

CP-Polymer-Technik Wellamid® 6000 CF 18 HWCP 18% 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-18-HWCP-18-Carbon-Fiber-Nylon-6-Heat-Stabilized-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.0 - 2.5 %	2.0 - 2.5 %	23°C/50%RH, Starting when dry; DIN 53495
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 4.00 mm	0.0030 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm @Thickness 4.00 mm	0.0090 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	5 mm/min; ISO 527
Elongation at Break	4.5 %	4.5 %	5 mm/min; ISO 527
Tensile Modulus	9.50 GPa	1380 ksi	ISO 527
Charpy Impact Unnotched	7.50 J/cm ² @Temperature 23.0 °C	35.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.70 J/cm ² @Temperature 23.0 °C	8.09 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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