

CP-Polymer-Technik Wellamid® 6600 CF20 HWCP 20% Carbon Fiber Nylon 66, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% 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-6600-CF20-HWCP-20-Carbon-Fiber-Nylon-66-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.0 - 2.5 %	2.0 - 2.5 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	16.0 GPa	2320 ksi	ISO 527
Flexural Modulus	13.5 GPa	1960 ksi	DIN 52457
Charpy Impact Unnotched	3.80 J/cm ²	18.1 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C	19.4 µin/in-°F	
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	DIN 53752
Melting Point	255 °C	491 °F	Kofler
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	230 °C	446 °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	<= 10 ohm-cm	<= 10 ohm-cm	IEC 93
Surface Resistance	<= 20 ohm	<= 20 ohm	ISO 3915

Processing Properties	Metric	English	Comments
Melt Temperature	275 - 295 °C	527 - 563 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	

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

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