

CP-Polymer-Technik Wellamid® 6000 GVS 10/20 HWCP 10% Glass Fiber and 20% Glass Sphere Nylon 6, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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-GVS-1020-HWCP-10-Glass-Fiber-and-20-Glass-Sphere-Nylon-6-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 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	0.0050 cm/cm	0.0050 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	110 MPa	16000 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	6.20 GPa	899 ksi	ISO 527
Flexural Modulus	5.10 GPa	740 ksi	DIN 52457
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C	13.9 µin/in-°F	DIN 53752
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
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
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	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	ISO 3915
Dielectric Constant	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 243-1
Dielectric Loss Index	0.020	0.020	At 1 MHz; IEC 250
Comparative Tracking Index	450 V	450 V	Stufe; IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	

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

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