

CP-Polymer-Technik Wellamid® 6000 GVZ 45 HWCP 45% Glass Fiber Nylon 6, Impact Resistant, Good Surface Finish, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass 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-GVZ-45-HWCP-45-Glass-Fiber-Nylon-6-Impact-Resistant-Good-Surface-Finish-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.5 - 2.0 %	1.5 - 2.0 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 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	210 MPa	30500 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
Tensile Modulus	12.5 GPa	1810 ksi	ISO 527
Flexural Modulus	11.5 GPa	1670 ksi	DIN 52457
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 µm/m-°C	8.33 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)	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 @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	40.0 kV/mm	1020 kV/in	IEC 243-1
Dielectric Loss Index	0.016	0.016	At 1 MHz; IEC 250
Comparative Tracking Index	550 V	550 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	Medium to High	
Screw Speed	High	

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