

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

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , 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-Conditioned.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, Starting when dry; DIN 53495
Linear Mold Shrinkage	0.0015 cm/cm @Thickness 4.00 mm	0.0015 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 4.00 mm	0.0070 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	9.50 GPa	1380 ksi	ISO 527
Charpy Impact Unnotched	11.0 J/cm ² @Temperature 23.0 °C	52.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 93
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	ISO 3915
	6.0	6.0	

Dielectric Constant Electrical Properties	Metric @ Frequency 1e+6 Hz	English @ Frequency 1e+6 Hz	IEC 250 Comments
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 243-1
Dielectric Loss Index	0.16	0.16	At 1 MHz; IEC 250

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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