

CP-Polymer-Technik Wellamid® 6000 GS 40 HWCP 40% Glass Sphere Filled Nylon 6, Heat Stabilized, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Bead 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-GS-40-HWCP-40-Glass-Sphere-Filled-Nylon-6-Heat-Stabilized-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 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	0.0080 - 0.010 cm/cm @Thickness 4.00 mm	0.0080 - 0.010 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	5 mm/min; ISO 527
Elongation at Break	18 %	18 %	5 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 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	1.60 J/cm ² @Temperature 23.0 °C	7.61 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
Dielectric Constant	6.0 @Frequency 1e+6 Hz	6.0 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 243-1

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	

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

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