CP-Polymer-Technik Wellamid® 6000/52 GV 15 HWCP 15% Glass Fiber Nylon 6, Low Temperature Impact Modified, Heat Stabilized, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

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-600052-GV-15-HWCP-15-Glass-Fiber-Nylon-6-Low-Temperature-Impact-Modified-Heat-Stabilized-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	2.0 - 2.5 %	2.0 - 2.5 %	23°C/50%RH, Starting when dry; DIN 53495
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 4.00 mm	0.0030 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 4.00 mm	0.0080 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	5 mm/min; ISO 527
Elongation at Break	10 %	10 %	5 mm/min; ISO 527
Tensile Modulus	3.50 GPa	508 ksi	ISO 527
Charpy Impact Unnotched	9.00 J/cm² @Temperature 23.0 °C	42.8 ft-lb/in² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	2.70 J/cm² @Temperature 23.0 °C	12.8 ft-lb/in² @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
	7.0	7.0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	IEC 250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 243-1
Dielectric Loss Index	0.20	0.20	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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