

CP-Polymer-Technik Wellamid® 6600 GV 45 HWCP 45% Glass Fiber Nylon 66, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 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-6600-GV-45-HWCP-45-Glass-Fiber-Nylon-66-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	1.4 - 2.0 %	1.4 - 2.0 %	23°C/50%RH; 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	0.0080 cm/cm @Thickness 4.00 mm	0.0080 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	215 MPa	31200 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	14.5 GPa	2100 ksi	ISO 527
Flexural Modulus	12.0 GPa	1740 ksi	DIN 52457
Charpy Impact Unnotched	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.70 J/cm ² @Temperature 23.0 °C	8.09 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 µm/m-°C @Temperature 23.0 - 80.0 °C	8.33 µin/in-°F @Temperature 73.4 - 176 °F	DIN 53752
Melting Point	255 °C	491 °F	Kofler
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 179

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric	English	Comments
Vicat Softening Point	230 °C	446 °F	50 N; ISO 306
Flammability, UL94	HB	HB	Stufe; IEC 707
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	Stufe; IEC 707
	@Thickness 3.20 mm	@Thickness 0.126 in	

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	4.0	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 243-1
Dielectric Loss Index	0.015	0.015	At 1 MHz; IEC 250
Comparative Tracking Index	550 V	550 V	Stufe; IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	265 - 295 °C	509 - 563 °F	
Mold Temperature	70.0 - 100 °C	158 - 212 °F	

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

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