

CP-Polymer-Technik Wellamid® 6000/51 GV 30 HWCP 30% Glass Fiber Nylon 6, Low Temperature Impact Modified, Heat Stabilized, Dry

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-600051-GV-30-HWCP-30-Glass-Fiber-Nylon-6-Low-Temperature-Impact-Modified-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 - 2.3 %	1.8 - 2.3 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 4.00 mm	0.0020 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	150 MPa	21800 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	8.50 GPa	1230 ksi	ISO 527
Flexural Modulus	7.20 GPa	1040 ksi	DIN 52457
Charpy Impact Unnotched	9.00 J/cm ² @Temperature 23.0 °C	42.8 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
CTE, linear	20.0 µm/m-°C @Temperature 23.0 - 80.0 °C	11.1 µin/in-°F @Temperature 73.4 - 176 °F	DIN 53752
Melting Point	215 °C	419 °F	Kofler
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 179

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric	English	Comments
Vicat Softening Point	200 °C	392 °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	0.022	0.022	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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