

CP-Polymer-Technik Wellamid® 6000/58 GV 15 HWUVCP 15% Glass Fiber Nylon 6, Impact Modified Until -40°C, UV Stabilized, 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-600058-GV-15-HWUVCP-15-Glass-Fiber-Nylon-6-Impact-Modified-Until-40C-UV-Stabilized-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.0 - 2.5 %	2.0 - 2.5 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	
	@Thickness 4.00 mm	@Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	5.40 GPa	783 ksi	ISO 527
Flexural Modulus	4.80 GPa	696 ksi	DIN 52457
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	DIN 53752
Melting Point	215 °C	419 °F	Kofler

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 179
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ISO 179
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	0.025	0.025	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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