

CP-Polymer-Technik Wellamid® 6600/58 GV 30 HWCP 30% Glass Fiber Nylon 66, Impact Modified Until -40°C, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Reinforced, 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-660058-GV-30-HWCP-30-Glass-Fiber-Nylon-66-Impact-Modified-Until-40C-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 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	0.0070 cm/cm @Thickness 4.00 mm	0.0070 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	ISO 527
Flexural Modulus	6.50 GPa	943 ksi	DIN 52457
Charpy Impact Unnotched	8.50 J/cm ² @Temperature 23.0 °C	40.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	2.80 J/cm ² @Temperature 23.0 °C	13.3 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	255 °C	491 °F	Kofler
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	230 °C	446 °F	50 N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	Stufe; IEC 707
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	Stufe; IEC 707

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 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 250
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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