

CP-Polymer-Technik Wellamid® 6000 MZ 301 CP Combination Nylon 6, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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-6000-MZ-301-CP-Combination-Nylon-6-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 - 2.5 %	1.8 - 2.5 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0050 cm/cm @Thickness 4.00 mm	0.0050 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	120 MPa	17400 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	7.70 GPa	1120 ksi	ISO 527
Flexural Modulus	6.80 GPa	986 ksi	DIN 52457
Charpy Impact Unnotched	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.600 J/cm ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C @Temperature 23.0 - 80.0 °C	19.4 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)	215 °C	419 °F	ISO 179
Deflection Temperature at 1.8 MPa	200 °C	392 °F	

(264 psi) Thermal Properties	Metric	English	ISO 179 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	0.020	0.020	At 1 MHz; IEC 250
Comparative Tracking Index	450 V	450 V	Stufe; IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 °C	482 - 554 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	

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

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