

CP-Polymer-Technik Wellamid® 6600 MZ 401 CP Combination Nylon 66, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-MZ-401-CP-Combination-Nylon-66-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 - 2.5 %	1.8 - 2.5 %	23°C/50%RH, Starting when dry; 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	0.0060 cm/cm @Thickness 4.00 mm	0.0060 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527
Charpy Impact Unnotched	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.900 J/cm ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	Kofler

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 93
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	ISO 3915
Dielectric Constant	6.0	6.0	IEC 250

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 243-1
Dielectric Loss Index	0.10	0.10	At 1 MHz; IEC 250

Processing Properties	Metric	English	Comments
Melt Temperature	265 - 295 °C	509 - 563 °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	Medium	

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