

CP-Polymer-Technik Wellamid® 6000 SCP Nylon 6, Finely Crystalline, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

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-SCP-Nylon-6-Finely-Crystalline-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.5 - 3.3 %	2.5 - 3.3 %	23°C/50%RH, Starting when dry; DIN 53495
Linear Mold Shrinkage	0.0080 - 0.012 cm/cm @Thickness 4.00 mm	0.0080 - 0.012 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	50 mm/min; ISO 527
Elongation at Yield	20 %	20 %	50 mm/min; ISO 527
Tensile Modulus	1.20 GPa	174 ksi	ISO 527
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	215 °C	419 °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	7.0 @Frequency 1e+6 Hz	7.0 @Frequency 1e+6 Hz	IEC 250

Dielectric Strength Electrical Properties	35.0 kV/mm Metric	889 kV/in English	IEC 243-1 Comments
Dielectric Loss Index	0.30	0.30	At 1 MHz; IEC 250

Processing Properties	Metric	English	Comments
Melt Temperature	245 - 265 °C	473 - 509 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	

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

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