

## CP-Polymer-Technik Wellamid® 6000 HWV0CP Nylon 6, Flame Protection, Heat Stabilized, Dry

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

### 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-HWV0CP-Nylon-6-Flame-Protection-Heat-Stabilized-Dry.php](http://www.lookpolymers.com/polymer_CP-Polymer-Technik-Wellamid-6000-HWV0CP-Nylon-6-Flame-Protection-Heat-Stabilized-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	2.5 - 3.3 %	2.5 - 3.3 %	23°C/50%RH; 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	85.0 MPa	12300 psi	50 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	3.30 GPa	479 ksi	ISO 527
Flexural Modulus	2.80 GPa	406 ksi	DIN 52457
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.500 J/cm <sup>2</sup> @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	85.0 µm/m-°C @Temperature 23.0 - 80.0 °C	47.2 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)	170 °C	338 °F	ISO 179
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 179

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	Stufe; IEC 707
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	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+13 ohm	1.00e+13 ohm	ISO 3915
Dielectric Constant	3.5	3.5	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243-1
Dielectric Loss Index	0.024	0.024	At 1 MHz; IEC 250
Comparative Tracking Index	600 V	600 V	Stufe; IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	245 - 265 °C	473 - 509 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China