

## CP-Polymer-Technik Wellamid® 6000 MR 409 HWCP Mineral Nylon 6, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Mineral Filled

### 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-MR-409-HWCP-Mineral-Nylon-6-Heat-Stabilized-Dry.php](http://www.lookpolymers.com/polymer_CP-Polymer-Technik-Wellamid-6000-MR-409-HWCP-Mineral-Nylon-6-Heat-Stabilized-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	1.5 - 2.0 %	1.5 - 2.0 %	23°C/50%RH; DIN 53495
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm @Thickness 4.00 mm	0.0080 - 0.010 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	5 mm/min; ISO 527
Elongation at Break	5.5 %	5.5 %	5 mm/min; ISO 527
Tensile Modulus	5.80 GPa	841 ksi	ISO 527
Flexural Modulus	5.20 GPa	754 ksi	DIN 52457
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup> @Temperature 23.0 °C	33.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.700 J/cm <sup>2</sup> @Temperature 23.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C @Temperature 23.0 - 80.0 °C	30.6 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)	195 °C	383 °F	ISO 179
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 179
Vicat Softening Point	200 °C	392 °F	50 N; ISO 306

Thermal Properties Flammability, UL 94	Metric	English	Comments 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	35.0 kV/mm	889 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	260 - 290 °C	500 - 554 °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	High	

## Contact Songhan Plastic Technology Co.,Ltd.

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