

CP-Polymer-Technik Wellamid® 6600 PA-66-HWL UL-Licensed Nylon 66, Flame Protection Grade V-2, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 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-6600-PA-66-HWL-UL-Licensed-Nylon-66-Flame-Protection-Grade-V-2-Heat-Stabilized-Dry.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.5 - 3.0 %	2.5 - 3.0 %	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	15 %	15 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	3.20 GPa	464 ksi	ISO 527
Flexural Modulus	2.80 GPa	406 ksi	DIN 52457
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @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	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	255 °C	491 °F	Kofler
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	ISO 179
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO 179

Thermal Properties Vicat Softening Point	Metric 230 °C	English 446 °F	Comments 50 N; ISO 306
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	Stufe; IEC 707
	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	Stufe; IEC 707
	V-2 @Thickness 3.20 mm	V-2 @Thickness 0.126 in	Stufe; IEC 707

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	3.4 @Frequency 1e+6 Hz	3.4 @Frequency 1e+6 Hz	IEC 250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243-1
Dielectric Loss Index	0.025	0.025	At 1 MHz; IEC 250
Comparative Tracking Index	600 V	600 V	Stufe; IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 295 °C	500 - 563 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	

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

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