

CP-Polymer-Technik Wellamid® 6000/42 GV 15 HWCP 15% Glass Fiber Nylon 6, Polymer Modified, Heat Stabilized, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber 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-600042-GV-15-HWCP-15-Glass-Fiber-Nylon-6-Polymer-Modified-Heat-Stabilized-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|------------------------------------|-------------------------------------|-----------------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 2.0 - 2.5 % | 2.0 - 2.5 % | 23°C/50%RH; DIN 53495 |
| Linear Mold Shrinkage | 0.0030 cm/cm @Thickness 4.00 mm | 0.0030 in/in @Thickness 0.157 in | |
| Linear Mold Shrinkage, Transverse | 0.0090 cm/cm @Thickness 4.00 mm | 0.0090 in/in @Thickness 0.157 in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|--|-------------------|
| Tensile Strength at Break | 100 MPa | 14500 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 4.0 % | 4.0 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 5.30 GPa | 769 ksi | ISO 527 |
| Flexural Modulus | 4.80 GPa | 696 ksi | DIN 52457 |
| Charpy Impact Unnotched | 4.80 J/cm ² @Temperature 23.0 °C | 22.8 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |
| Charpy Impact, Notched | 0.800 J/cm ² @Temperature 23.0 °C | 3.81 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|---|--|-----------|
| CTE, linear | 30.0 µm/m-°C @Temperature 23.0 - 80.0 °C | 16.7 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) | 200 °C | 392 °F | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|--------------------|----------------------|----------------|
| Vicat Softening Point | 200 °C | 392 °F | 50 N; ISO 306 |
| Flammability, UL94 | HB | HB | 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 | 40.0 kV/mm | 1020 kV/in | IEC 243-1 |
| Dielectric Loss Index | 0.025 | 0.025 | At 1 MHz; IEC 250 |
| Comparative Tracking Index | 550 V | 550 V | Stufe; IEC 112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature | 250 - 280 °C | 482 - 536 °F | |
| Mold Temperature | 60.0 - 90.0 °C | 140 - 194 °F | |

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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