

BASF Ultramid® B3ZG3 BK30564 15% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

Ultramid B3ZG3 BK30564 is an impact-modified, pigmented black, 15% glass fiber reinforced injection molding PA6 grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3ZG3-BK30564-15-Glass-Filled-PA6-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|---------------------------|
| Density | 1.22 g/cc | 0.0441 lb/in ³ | ISO 1183 |
| Water Absorption | 7.2 - 7.8 % | 7.2 - 7.8 % | ISO 62 |
| Moisture Absorption at Equilibrium | 2.1 - 2.7 % | 2.1 - 2.7 % | 23°C/50% R.H.; ISO 62 |
| Viscosity Measurement | 160 | 160 | Viscosity Number; ISO 307 |
| Linear Mold Shrinkage | 0.0050 cm/cm | 0.0050 in/in | |
| Melt Flow | 42.7 g/10 min @Load 5.00 kg, Temperature 275 °C | 42.7 g/10 min @Load 11.0 lb, Temperature 527 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|-------------------|
| Tensile Strength, Yield | 110 MPa | 16000 psi | 50mm/min; ISO 527 |
| Elongation at Yield | 4.0 % | 4.0 % | 50mm/min; ISO 527 |
| Modulus of Elasticity | 5.50 GPa | 798 ksi | ISO 527 |
| Flexural Strength | 150 MPa | 21800 psi | ISO 178 |
| Flexural Modulus | 4.50 GPa | 653 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 15.0 kJ/m ² | 7.14 ft-lb/in ² | ISO 180/A |
| | 5.00 kJ/m ² @Temperature -30.0 °C | 2.38 ft-lb/in ² @Temperature -22.0 °F | ISO 180/A |
| Charpy Impact Unnotched | 7.50 J/cm ² | 35.7 ft-lb/in ² | ISO 179/1eU |
| | 5.50 J/cm ² @Temperature -30.0 °C | 26.2 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |
| Charpy Impact, Notched | 1.60 J/cm ² | 7.61 ft-lb/in ² | ISO 179/1eA |
| | 7.00 J/cm ² @Temperature -30.0 °C | 33.3 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eA |

| Mechanical Properties | Metric | English | Comments |
|---|--|---|-----------------|
| Thermal Properties | Metric | English | Comments |
| CTE, linear, Parallel to Flow | 30.0 - 35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 80.0 °C | 16.7 - 19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 176 °F | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 70.0 - 80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 80.0 °C | 38.9 - 44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 176 °F | ISO 11359-1/-2 |
| Thermal Conductivity | 0.340 W/m-K | 2.36 BTU-in/hr-ft ² -°F | DIN 52612 |
| Melting Point | 220 °C | 428 °F | DIN 53765 |
| Maximum Service Temperature, Air | 180 °C | 356 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 180 °C | 356 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 °C | 392 °F | ISO 75 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------------------|--------------------------------|----------------------------|
| Volume Resistivity | 1.00e+11 ohm-cm | 1.00e+11 ohm-cm | IEC 60093 |
| Dielectric Constant | 3.7 @Frequency 1.00e+6 Hz | 3.7 @Frequency 1.00e+6 Hz | IEC 60250 |
| Dissipation Factor | 0.025 @Frequency 1.00e+6 Hz | 0.025 @Frequency 1.00e+6 Hz | IEC 60250 |
| Comparative Tracking Index | 550 V | 550 V | Test Solution A; IEC 60112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-------------------------|-----------------------|-----------------------------|
| Melt Temperature | 270 - 290 °C | 518 - 554 °F | Injection-molding/Extrusion |
| Mold Temperature | 80.0 - 90.0 °C | 176 - 194 °F | Injection-molding |

| Descriptive Properties | Value | Comments |
|------------------------|--------------------------|----------|
| Color | BK30564 | |
| Commercial Status | North America and Europe | |

| Descriptive Properties | Value | Comments |
|------------------------------|-------------------|----------|
| Primary Processing Technique | Injection Molding | |

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