

BASF Ultramid® B3EG3 BK 00564 15% Glass Filled PA6 (Conditioned)

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

Material Notes:

Description: 15% glass-fiber reinforced injection-molding grade with enhanced impact resistance, for example, for vehicle mirror housings as well as for the wheels of mountain bikes. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3EG3-BK-00564-15-Glass-Filled-PA6-Conditioned.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--|--|----------------------|
| Density | 1.23 g/cc | 0.0444 lb/in ³ | ISO 1183 |
| Water Absorption | 7.7 - 8.3 % | 7.7 - 8.3 % | Saturation; ISO 62 |
| Moisture Absorption at Equilibrium | 2.3 - 2.9 % | 2.3 - 2.9 % | 23°C; 50% RH; ISO 62 |
| Viscosity Measurement | 140 | 140 | ISO 307 |
| Linear Mold Shrinkage | 0.0045 cm/cm | 0.0045 in/in | restricted |
| Melt Flow | 92.25 g/10 min @Load 5.00 kg, Temperature 275 °C | 92.25 g/10 min @Load 11.0 lb, Temperature 527 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------------------|--|--|-------------------------|
| Tensile Strength, Yield | 70.0 MPa | 10200 psi | 50 mm/min; ISO 527-1/-2 |
| Elongation at Yield | 15 % | 15 % | 50 mm/min; ISO 527-1/-2 |
| Modulus of Elasticity | 3.50 GPa | 508 ksi | ISO 527-1/-2 |
| Flexural Strength | 100 MPa | 14500 psi | at max force; ISO 178 |
| Flexural Modulus | 2.50 GPa | 363 ksi | ISO 178 |
| Charpy Impact Unnotched | 10.5 J/cm ² @Temperature 23.0 °C | 50.0 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 2.00 J/cm ² @Temperature 23.0 °C | 9.52 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |
| Tensile Creep Modulus, 1000 hours | 2100 MPa @Strain <=0.500 % | 305000 psi @Strain <=0.500 % | ISO 899-1 |

| Thermal Properties | Metric | English | Comments |
|----------------------|-------------|------------------------------------|-----------|
| Thermal Conductivity | 0.340 W/m-K | 2.36 BTU-in/hr-ft ² -°F | DIN 52612 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------|---------|--|
| Maximum Service Temperature, Air | 135 °C | 275 °F | for 50% loss of tensile strength after 20000hr |
| | 165 °C | 329 °F | for 50% loss of tensile strength after 5000hr |
| | 200 °C | 392 °F | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|----------------------------|
| Volume Resistivity | 1.00e+10 ohm-cm | 1.00e+10 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+10 ohm | 1.00e+10 ohm | IEC 60093 |
| Dielectric Constant | 7.0 | 7.0 | IEC 60250 |
| | @Frequency 1.00 Hz | @Frequency 1.00 Hz | |
| Dissipation Factor | 0.24 | 0.24 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| 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 | BK 00564 | |
| Commercial Status | Europe | |

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