

BASF Ultramid® 8267G HS BK-102 15/25% Glass/Mineral Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

Ultramid 8267G HS BK-102 is a heat stabilized, black pigmented, 40% mineral and glass fiber reinforced nylon 6 injection molding compound. It possesses a balance of engineering properties in combination with excellent dimensional stability, low warp and resistance to sink-mark formation. It exhibits high strength, rigidity, and good heat distortion temperature. It resists creep under load and the heat stabilizer system extends its retention of properties at elevated temperatures. It has good chemical resistance to greases, oils and hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8267G-HS-BK-102-1525-GlassMineral-Filled-PA6-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------|---------------------------|-----------------------|
| Density | 1.48 g/cc | 0.0535 lb/in ³ | ISO 1183 |
| Water Absorption | 0.90 % | 0.90 % | 24 hour; ISO Test |
| | 5.7 % | 5.7 % | ISO 62 |
| Moisture Absorption at Equilibrium | 1.6 % | 1.6 % | 23°C/50% R.H.; ISO 62 |
| Linear Mold Shrinkage | 0.0040 cm/cm | 0.0040 in/in | ASTM Data; MD |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|-----------------------|
| Hardness, Rockwell R | 121 | 121 | ASTM Test |
| Tensile Strength at Break | 130 MPa | 18900 psi | 0.2 in/min; ASTM Test |
| Tensile Strength, Ultimate | 125 MPa | 18100 psi | 5mm/min; ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | 5mm/min; ISO 527 |
| | 3.0 % | 3.0 % | 0.2 in/min; ASTM Test |
| Tensile Modulus | 8.30 GPa | 1200 ksi | 1mm/min; ISO 527 |
| | 2.74 GPa | 397 ksi | ISO Data |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 3.53 GPa | 512 ksi | ISO Data |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 9.79 GPa | 1420 ksi | ISO Data |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Flexural Strength | 195 MPa | 28300 psi | ISO Data |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|-----------|
| Flexural Modulus | 7.20 GPa | 1040 ksi | ISO Data |
| | 7.93 GPa | 1150 ksi | ASTM Test |
| Izod Impact, Notched | 0.550 J/cm | 1.03 ft-lb/in | ASTM Test |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |
| Izod Impact, Unnotched | 7.40 J/cm | 13.9 ft-lb/in | ASTM Test |
| Izod Impact, Notched (ISO) | 6.00 kJ/m ² | 2.86 ft-lb/in ² | ISO Test |
| | 4.00 kJ/m ² | 1.90 ft-lb/in ² | ISO Test |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Charpy Impact Unnotched | 5.20 J/cm ² | 24.7 ft-lb/in ² | ISO 179 |
| Charpy Impact, Notched | 0.500 J/cm ² | 2.38 ft-lb/in ² | ISO 179 |
| | 0.350 J/cm ² | 1.67 ft-lb/in ² | ISO 179 |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|------------------------------|-----------|
| CTE, linear | 31.0 µm/m-°C | 17.2 µin/in-°F | ASTM Test |
| | @Temperature -30.0 - 30.0 °C | @Temperature -22.0 - 86.0 °F | |
| CTE, linear, Parallel to Flow | 30.0 µm/m-°C | 16.7 µin/in-°F | ISO 11359 |
| CTE, linear, Transverse to Flow | 67.0 µm/m-°C | 37.2 µin/in-°F | ISO 11359 |
| Melting Point | 220 °C | 428 °F | 10 K/min |
| | 220 °C | 428 °F | ASTM Test |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 200 °C | 392 °F | ISO 75 |
| | 202 °C | 396 °F | ASTM Test |
| Flammability, UL94 | HB | HB | |
| | HB | HB | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Volume Resistivity Electrical Properties | $\geq 1.00e+13$ ohm-cm Metric | $\geq 1.00e+13$ ohm-cm English | IEC 60093 Comments |
|---|----------------------------------|-----------------------------------|-----------------------|
|---|----------------------------------|-----------------------------------|-----------------------|

| Processing Properties | Metric | English | Comments |
|-----------------------|---------|---------|-------------------|
| Melt Temperature | 275 °C | 527 °F | Injection molding |
| Mold Temperature | 95.0 °C | 203 °F | Injection molding |

| Descriptive Properties | Value | Comments |
|------------------------------|-----------------------------------|----------|
| Color | BK-102 | |
| Commercial Status | Active America | |
| Form | Pellets | |
| Impact Modified | No | |
| Primary Processing Technique | Injection Molding | |
| Processing | Injection Molding | |
| Special characteristic | Heat stabilized or stable to heat | |
| UL.UL-C | Yes | |

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