

BASF Ultramid® TG3S 15% Glass Filled PA6 (Dry)

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

Material Notes:

Description: Ultramid TG3S is a 15% glass reinforced, heat stabilized, impact modified PA6 injection molding compound developed for applications requiring improved toughness in combination with a balance of strength, stiffness, excellent moldability and surface aesthetics. Applications: window hardware, wheel chairs wheels, bicycle wheels, power tool housings, hose clamps, clips and fasteners. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-TG3S-15-Glass-Filled-PA6-Dry.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.21 g/cc | 0.0437 lb/in ³ | ISO 1183 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|----------|
| Tensile Strength at Break | 90.0 MPa | 13100 psi | ISO 527 |
| Elongation at Break | 3.5 % | 3.5 % | ISO 527 |
| Flexural Modulus | 4.39 GPa | 637 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 5.40 kJ/m ² | 2.57 ft-lb/in ² | ISO 180 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Charpy Impact, Notched | 17.0 kJ/m ² | 8.09 ft-lb/in ² | ISO 180 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 1.30 J/cm ² | 6.19 ft-lb/in ² | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|----------|
| Melting Point | 220 °C | 428 °F | ISO 3146 |
| Deflection Temperature at 1.8 MPa (264 psi) | 180 °C | 356 °F | ISO 75 |
| UL RTI, Electrical | 65.0 °C | 149 °F | 746B |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| UL RTI, Mechanical with Impact | 65.0 °C | 149 °F | 746B |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| UL RTI, Mechanical without Impact | 65.0 °C | 149 °F | 746B |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | HB | HB | |

| Flammability UL 94 Thermal Properties | Metric @ Thickness 1.50 mm | English @ Thickness 0.0591 in | Comments |
|--|-------------------------------|----------------------------------|----------|
|--|-------------------------------|----------------------------------|----------|

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|-------------|
| Zone 1 | 245 - 275 °C | 473 - 527 °F | Rear Zone |
| Zone 2 | 260 - 285 °C | 500 - 545 °F | Center Zone |
| Zone 3 | 270 - 295 °C | 518 - 563 °F | Front Zone |
| Zone 4 | 270 - 295 °C | 518 - 563 °F | Nozzle |
| Melt Temperature | 270 - 295 °C | 518 - 563 °F | |
| Mold Temperature | 80.0 - 95.0 °C | 176 - 203 °F | |
| Dry Time | 2 - 4 hour | 2 - 4 hour | |
| Moisture Content | <= 0.080 % | <= 0.080 % | |

| Descriptive Properties | Value | Comments |
|------------------------|---------------|----------|
| Commercial Status | North America | |

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