

BASF Ultradur B 4300 G3 15% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Ultradur B 4300 G3 is an easy flowing injection molding PBT with 15% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4300-G3-15-Glass-Filled-PBT.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|-----------------------|
| Density | 1.42 g/cc | 0.0513 lb/in ³ | ISO 1183 |
| Water Absorption | 0.40 % | 0.40 % | ISO 62 |
| Moisture Absorption at Equilibrium | 0.20 % | 0.20 % | 23°C/50% R.H.; ISO 62 |
| Viscosity Test | 111 cm ³ /g | 111 cm ³ /g | Viscosity number |
| Linear Mold Shrinkage | 0.0050 cm/cm | 0.0050 in/in | ASTM Data; MD |
| Melt Flow | 22 g/10 min @Load 2.16 kg, Temperature 250 °C | 22 g/10 min @Load 4.76 lb, Temperature 482 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------------------|---|-----------------------|
| Tensile Strength at Break | 93.0 MPa | 13500 psi | 0.2 in/min; ASTM Test |
| Tensile Strength, Ultimate | 93.0 MPa | 13500 psi | 5mm/min; ISO 527 |
| Elongation at Break | 4.0 % | 4.0 % | 5mm/min; ISO 527 |
| | 4.0 % | 4.0 % | 0.2 in/min; ASTM Test |
| Tensile Modulus | 5.52 GPa | 801 ksi | ASTM Test |
| | 6.00 GPa | 870 ksi | 1mm/min; ISO 527 |
| Flexural Modulus | 4.80 GPa | 696 ksi | ISO Data |
| | 4.83 GPa | 701 ksi | ASTM Test |
| Izod Impact, Notched | 0.430 J/cm @Temperature -40.0 °C | 0.806 ft-lb/in @Temperature -40.0 °F | ASTM Test |
| | 0.530 J/cm @Thickness 3.17 mm | 0.993 ft-lb/in @Thickness 0.125 in | ASTM Test |
| Izod Impact, Notched (ISO) | 8.50 kJ/m ² | 4.04 ft-lb/in ² | ISO Test |

| Mechanical Properties | Metric | English | Comments |
|---|--|--|-----------|
| CTE, linear, Parallel to Flow | 40.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 22.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | ISO 11359 |
| Melting Point | 223 $^\circ\text{C}$ | 433 $^\circ\text{F}$ | 10 K/min |
| | 223 $^\circ\text{C}$ | 433 $^\circ\text{F}$ | ASTM Test |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 $^\circ\text{C}$ | 428 $^\circ\text{F}$ | ASTM Test |
| | 220 $^\circ\text{C}$ | 428 $^\circ\text{F}$ | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 183 $^\circ\text{C}$ | 361 $^\circ\text{F}$ | ISO 75 |
| | 203 $^\circ\text{C}$ | 397 $^\circ\text{F}$ | ASTM Test |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------------------|--------------------------------|-----------|
| Volume Resistivity | $\geq 1.00\text{e}+13$ ohm-cm | $\geq 1.00\text{e}+13$ ohm-cm | IEC 60093 |
| Surface Resistance | $1.00\text{e}+13$ ohm | $1.00\text{e}+13$ ohm | IEC 60093 |
| Dielectric Constant | 3.7 | 3.7 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 3.7 | 3.7 | IEC 60250 |
| | @Frequency $1.00\text{e}+6$ Hz | @Frequency $1.00\text{e}+6$ Hz | |
| Dissipation Factor | 0.0012 | 0.0012 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 0.015 | 0.015 | IEC 60250 |
| | @Frequency $1.00\text{e}+6$ Hz | @Frequency $1.00\text{e}+6$ Hz | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|-------------------|
| Melt Temperature | 265 $^\circ\text{C}$ | 509 $^\circ\text{F}$ | Injection molding |
| Injection Velocity | 70.0 mm/sec | 2.76 in/sec | Injection molding |

| Descriptive Properties | Value | Comments |
|------------------------------|--------------------------------------|----------|
| Color | Natural | |
| Commercial Status | Active America | |
| Form | Pellets | |
| Impact Modified | No | |
| NSF Std. 61 | Yes | |
| Primary Processing Technique | Injection Molding | |
| Processing | Injection Molding | |
| Special characteristic | Heat stabilized or stable to heat | |
| | Light stabilized or stable to light | |
| | Lubricant | |
| | U.V. stabilized or stable to weather | |

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