

BLUESTAR 101G0 PBT

Category : Polymer , Thermoplastic , Polyester , TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Typical Applications: Appliance, parts Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_BLUESTAR-101G0-PBT.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|-------------------|
| Specific Gravity | 1.30 g/cc | 1.30 g/cc | ASTM D792 |
| Moisture Absorption at Equilibrium | 0.10 % | 0.10 % | 50% RH; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.020 cm/cm | 0.020 in/in | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.014 cm/cm | 0.014 in/in | ASTM D955 |
| Melt Flow | 26 g/10 min @Load 2.16 kg, Temperature 250 °C | 26 g/10 min @Load 4.76 lb, Temperature 482 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|-----------|
| Tensile Strength at Break | 52.0 MPa | 7540 psi | ASTM D638 |
| Elongation at Break | >= 100 % | >= 100 % | ASTM D638 |
| Tensile Modulus | 2.60 GPa | 377 ksi | ASTM D638 |
| Flexural Strength | 80.0 MPa | 11600 psi | ASTM D790 |
| Flexural Modulus | 2.50 GPa | 363 ksi | ASTM D790 |
| Izod Impact, Notched (ISO) | 5.40 kJ/m ² | 2.57 ft-lb/in ² | ASTM D256 |
| Izod Impact, Unnotched (ISO) | 80.0 kJ/m ² | 38.1 ft-lb/in ² | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------------------------|----------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 145 °C | 293 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 53.0 °C | 127 °F | ASTM D648 |
| Flammability, UL94 | HB @Thickness 0.380 mm | HB @Thickness 0.0150 in | |
| | HB | HB | |

| Thermal Properties | @Thickness 0.800 mm Metric | @Thickness 0.0315 in English | Comments |
|--------------------|-------------------------------|---------------------------------|----------|
| | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

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