

## Polyplastics Duranex® 3300H Polybutylene Terephthalate (PBT), Standard, 30% GF filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

### Material Notes:

DURANEX® is a crystalline thermoplastic based on polybutylene terephthalate (PBT) that can be readily strengthened, modified, or otherwise performance enhanced through the addition of glass fibers or other inorganic filler additives. Various grades are available, including flame-retardant, reinforced, and impact-resistant grades. DURANEX®, due to its mechanical strength, heat stability, electrical resistivity and wear and abrasion-resistance, offers great potential as a well-balanced, highly reliable material, having a wide variety of applications including electronic / electro-mechanical and automobile parts and various other functional parts. DURANEX® also assures moldability, dimensional stability, glossy surfaces and various fabrication capabilities providing higher added value. Information provided by PolyPlastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyplastics-Duranex-3300H-Polybutylene-Terephthalate-PBT-Standard-30-GF-filled.php](http://www.lookpolymers.com/polymer_Polyplastics-Duranex-3300H-Polybutylene-Terephthalate-PBT-Standard-30-GF-filled.php)

| Physical Properties | Metric    | English                   | Comments    |
|---------------------|-----------|---------------------------|-------------|
| Density             | 1.53 g/cc | 0.0553 lb/in <sup>3</sup> | ISO 1183    |
| Filler Content      | 30 %      | 30 %                      | Glass fiber |

| Mechanical Properties      | Metric                 | English                    | Comments     |
|----------------------------|------------------------|----------------------------|--------------|
| Tensile Strength, Ultimate | 140 MPa                | 20300 psi                  | ISO 527-1, 2 |
| Elongation at Break        | 2.4 %                  | 2.4 %                      | ISO 527-1, 2 |
| Flexural Strength          | 215 MPa                | 31200 psi                  | ISO 178      |
| Flexural Modulus           | 9.00 GPa               | 1310 ksi                   | ISO 178      |
| Charpy Impact, Notched     | 1.14 J/cm <sup>2</sup> | 5.43 ft-lb/in <sup>2</sup> | ISO 179/1eA  |

| Thermal Properties                          | Metric                      | English                    | Comments    |
|---|-----------------------------|----------------------------|-------------|
| CTE, linear                                 | 20.0 µm/m-°C                | 11.1 µin/in-°F             | ISO 11359-2 |
|   | @Temperature 23.0 - 55.0 °C | @Temperature 73.4 - 131 °F |             |
| CTE, linear, Transverse to Flow             | 90.0 µm/m-°C                | 50.0 µin/in-°F             | ISO 11359-2 |
|   | @Temperature 23.0 - 55.0 °C | @Temperature 73.4 - 131 °F |             |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C                      | 410 °F                     | ISO 75-1, 2 |
| Flammability, UL94                          | HB                          | HB                         |             |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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