

Polyplastics Duranex® 750LD Polybutylene Terephthalate (PBT), Low warpage, 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-750LD-Polybutylene-Terephthalate-PBT-Low-warpage-30-GF-filled.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-------------|
| Density | 1.60 g/cc | 0.0578 lb/in ³ | ISO 1183 |
| Filler Content | 30 % | 30 % | Glass fiber |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength, Ultimate | 135 MPa | 19600 psi | ISO 527-1, 2 |
| Elongation at Break | 1.8 % | 1.8 % | ISO 527-1, 2 |
| Flexural Strength | 206 MPa | 29900 psi | ISO 178 |
| Flexural Modulus | 10.1 GPa | 1460 ksi | ISO 178 |
| Charpy Impact, Notched | 0.790 J/cm ² | 3.76 ft-lb/in ² | 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 | 80.0 µm/m-°C | 44.4 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) | 205 °C | 401 °F | ISO 75-1, 2 |
| Flammability, UL94 | V-0 | V-0 | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------|---------|-----------|
| Comparative Tracking Index | 225 V | 225 V | IEC 60112 |

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