

Polyplastics Duranex® 2002 Polybutylene Terephthalate (PBT), Standard

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

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-2002-Polybutylene-Terephthalate-PBT-Standard.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.31 g/cc | 0.0473 lb/in ³ | ISO 1183 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength, Ultimate | 60.0 MPa | 8700 psi | ISO 527-1, 2 |
| Elongation at Break | 100 % | 100 % | ISO 527-1, 2 |
| Flexural Strength | 95.0 MPa | 13800 psi | ISO 178 |
| Flexural Modulus | 2.63 GPa | 381 ksi | ISO 178 |
| Charpy Impact, Notched | 0.340 J/cm ² | 1.62 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|-----------------------------|----------------------------|-------------|
| CTE, linear | 100 µm/m-°C | 55.6 µin/in-°F | ISO 11359-2 |
| | @Temperature 23.0 - 55.0 °C | @Temperature 73.4 - 131 °F | |
| CTE, linear, Transverse to Flow | 100 µm/m-°C | 55.6 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) | 70.0 °C | 158 °F | ISO 75-1, 2 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 5.00e+16 ohm-cm | 5.00e+16 ohm-cm | IEC 60093 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------------|--------------------------|-------------|
| Surface Resistance | 2.0×10^{17} ohm | 2.0×10^{17} ohm | IEC 60093 |
| Dielectric Strength | 14.0 kV/mm | 356 kV/in | IEC 60243-1 |
| Comparative Tracking Index | ≥ 600 V | ≥ 600 V | IEC 60112 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China