

## Polyplastics Duranex® 500FP Polybutylene Terephthalate (PBT), Unfilled PBT for film, Extrusion

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Extrusion Grade

### 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-500FP-Polybutylene-Terephthalate-PBT-Unfilled-PBT-for-film-Extrusion.php](http://www.lookpolymers.com/polymer_Polyplastics-Duranex-500FP-Polybutylene-Terephthalate-PBT-Unfilled-PBT-for-film-Extrusion.php)

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ISO 527-1, 2
Elongation at Break	80 %	80 %	ISO 527-1, 2
Flexural Modulus	2.44 GPa	354 ksi	ISO 178
Charpy Impact, Notched	0.270 J/cm <sup>2</sup>	1.28 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	ISO 75-1, 2
Flammability, UL94	HB	HB	

## Contact Songhan Plastic Technology Co.,Ltd.

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