

## PET

**Properties :** PBT/PET is milky-white, semi-transparent to opaque, crystalline thermoplastic polyester. It is one of the advanced engineering plastics with high rigidity, high toughness, good fatigue resistance, weather resistance, low water absorption rate (all the properties maintain under moisture atmosphere including electrical properties), high dielectric ability, good electrical capacity, size stability, good formability, excellent anti-creep ability under high impact, and good chemical properties as well. It is easy to process into glass-fiber reinforced and flame-retardant products. PBT/PET can be ultrasonic welded and easily post-processed.

### PBT/PET Products Series & Specification :

| Products Series                             | Type                          | Specification | Description  |
|---|-------------------------------|---------------|--|
| PBT in Household Electrical Appliance Field | PBT/ABS Alloy                 | 3020          | Dimensional Stability<br>Good Surface Effect                             |
|   | Reinforced Grade              | 30Gx          | High Rigidity<br>High Temperature Resistance<br>(x=3,4,5,6,8 etc)        |
|   |                               | 30GxF         | Flame-retardance<br>High Rigidity<br>(x=3,4,5,6 etc)                     |
|   |                               | 30GxF-CTI     | Flame-retardance<br>High CTI Value<br>Voltage Resistance (x=3,4,5,6 etc) |
| PBT in Connector Field                      | Flame-retardant Special Grade | 30GxF-GN      | Halogen-free<br>Good Comprehensive Properties<br>(x=3,4,5,6 etc)         |
|   |                               | 30GxF-UV      | Non-yellowing<br>High Rigidity<br>(x=3,4,5,6 etc)                        |
|   |                               | 30GxF-LW      | Low Warpage<br>High Rigidity<br>(x=3,4,5,6 etc)                          |
| PBT in Energy-saving Lamp Field             | Reinforced Grade              | 30GxF-DT      | Dimensional Stability<br>Heat Resistance<br>(x=3,4,5,6 etc)              |
|   |                               | 30GxF-DTUV    | Anti-UV<br>Dimensional Stability<br>(x=3,4,5,6 etc)                      |
| PBT in Automobile Accessory Field           | Filled Grade                  | 30Tx          | Platable (x=4,5,6 etc)   |
|   | Reinforced Grade              | 30Gx-AT       | High Rigidity<br>High Temperature Resistance                             |

|   |  |                                    |  |
|---|--|------------------------------------|--|
|   |  |                                    | (x=3,4,5,6 etc)  |
|   |  | 30GxF-AT                           | Flame-retardance<br>Dimensional Stability<br>(x=3,4,5,6 etc)                     |
|   | PBT/ASA Alloy                            | 3022G6                             | Anti-warpage<br>High Toughness   |
|   |  | 3022G6F                            | Flame-retardance<br>Anti-warpage   |
|   | PBT/PET Alloy                            | 3040G6                             | Dimensional Stability<br>High Rigidity<br>High Temperature Resistance            |
|   |  | 3040M4                             | Anti-warpage<br>Platable   |
| PET in Electronic<br>& Electrical Field | PET/ABS Alloy                            | 4020                               | Surface Gloss<br>Anti-warpage  |
|   | Flame-retardant Reinforced Grade         | 40GxF                              | High Rigidity<br>High Temperature Resistance<br>(x=3,4,5,6 etc)                  |
|   | Flame-retardant Reinforced Special Grade | 40GxF-LMT                          | Low Mold -temperature Injection<br>Good Comprehensive Properties (x=3,4,5,6 etc) |
|   |  | 40GxF-GN                           | Halogen-free<br>Good Comprehensive Properties (x=3,4,5,6 etc)                    |
|   | 40GxF-CTI                                | Voltage Resistance (x=3,4,5,6 etc) |  |
| PET in Automobile Component Field       | Reinforced Grade                         | 40Gx                               | High Rigidity<br>High Temperature Resistance<br>(x=3,4,5,6 etc)                  |
| PET in Daily Consumer Goods Field       | Ordinary Grade                           | 4010 resin                         | Non-filling<br>Good Flowability  |
|   | Flame-retardant Reinforced Grade         | 40GxF-UV                           | Non-yellowing (x=3,4,5,6 etc)  |
|   |  | 40GxF-LW                           | Low Warpage (x=3,4,5,6 etc)  |
|   |  | 40GxF-HG                           | Low Warpage (x=3,4,5,6 etc)  |

**Notice:** In the glass-fiber reinforced products, the actual glass fiber content=subscript No x 5, e.g. the actual glass fiber content of 30G6F is 6x5=30%. The actual filled content of 30T4 is 4x5=20%.

Application : Electric & Electrical, Chemical Machinery, Automobile Industry

