# ESTOPLAST EP 2030BR27

Polybutylene Terephthalate

Ester Industries Ltd.

## Message:

Polybutylene Terephthalate - Glass Fiber Reinforcement, 30%
Automotive: Plug and socket Connectors, Head/Tail Lamp Housings
Electrical & Electronic: Connectors, Switch Parts, Electrical Enclosure

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass fiber reinforced material, 30% filler by weight | | |
| Additive | demoulding | | |
| Features | Good demoulding performance | | |
| Uses | Plug<br>Electrical/Electronic Applications<br>Switch<br>Connector<br>Application in Automobile Field<br>Shell | | |
| RoHS Compliance | RoHS compliance | | |
| Appearance | Brown | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.53 | g/cm³ | ASTM D792 |
| Water Absorption | | | ISO 62 |
| Saturated, 23°C | 0.30 | % | ISO 62 |
| Equilibrium, 23°C, 50% RH | 0.15 | % | ISO 62 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Break) | 105 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.0 | % | ASTM D638 |
| Flexural Strength | 170 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C) | 50 | J/m | ASTM D256A |
| Unnotched Izod Impact (23°C) | 430 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 220 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 200 | °C | ASTM D648 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Volume Resistivity | 4.0E+16 | ohms·cm | ASTM D257 |

| | | | |
|---|---|---|---|
| Comparative Tracking Index (CTI) | PLC 2 | | UL 746 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating | | | UL 94 |
| 0.75 mm | HB | | UL 94 |
| 1.5 mm | HB | | UL 94 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 110 - 120 | °C | |
| Drying Time | 3.0 - 4.0 | hr | |
| Rear Temperature | 235 - 240 | °C | |
| Middle Temperature | 250 - 260 | °C | |
| Nozzle Temperature | 250 - 260 | °C | |
| Processing (Melt) Temp | 240 - 250 | °C | |
| Mold Temperature | 100 - 120 | °C | |

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## Recommended distributors for this material

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