

ESTOPLAST EP 4030WW01

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - 30% Glass Fiber Reinforcement, Flame Retardant

Automotive: Interior Parts and E&E parts

Electrical & Electronic: Plug & Socket, CFL Parts, LED Parts, and Electrical Enclosure

| General Information | | | |
|-----------------------------------|--|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 30% filler by weight | | |
| Additive | demoulding Flame retardancy | | |
| Features | Good demoulding performance Flame retardancy | | |
| Uses | LEDs Lighting Applications Plug Electrical/Electronic Applications Application in Automobile Field Car interior parts | | |
| RoHS Compliance | RoHS compliance | | |
| Appearance | White | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.70 | g/cm ³ | 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) | 140 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.5 | % | ASTM D638 |
| Flexural Strength | 220 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 80 | J/m | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 210 | °C | ASTM D648 |

| | | | |
|---------------------------------------|----------------------|-------------|--------------------|
| 1.8 MPa, not annealed | 195 | °C | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.8 mm) | V-0 | | UL 94 |
| Glow Wire Flammability Index (1.2 mm) | 960 | °C | IEC 60695-2-12 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 110 - 120 | °C | |
| Drying Time | 3.0 - 4.0 | hr | |
| Rear Temperature | 235 - 245 | °C | |
| Middle Temperature | 250 - 260 | °C | |
| Nozzle Temperature | 250 - 255 | °C | |
| Processing (Melt) Temp | 245 - 255 | °C | |
| Mold Temperature | 80 - 110 | °C | |

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