

# ESTOPLAST EP 4020WR30

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Flame Retardant, Glass Fiber Reinforcement, 20%  
Automotive: Interior Parts and E&E parts  
Electrical & Electronic: CFL Parts, LED accessories, Electrical enclosure, and Fuse box

| General Information               |                                                       |                   |             |
|-----------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement            | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Additive                          | demoulding                                            |                   |             |
|                                   | Flame retardancy                                      |                   |             |
| Features                          | Good demoulding performance                           |                   |             |
|                                   | Flame retardancy                                      |                   |             |
| Uses                              | LEDs                                                  |                   |             |
|                                   | Lighting Applications                                 |                   |             |
|                                   | Electrical/Electronic Applications                    |                   |             |
|                                   | Application in Automobile Field                       |                   |             |
|                                   | Car interior parts                                    |                   |             |
| Appearance                        | White                                                 |                   |             |
| Forms                             | Particle                                              |                   |             |
| Processing Method                 | Injection molding                                     |                   |             |
| Physical                          | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                  | 1.61                                                  | g/cm <sup>3</sup> | 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)          | 97.0                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break)        | 3.5                                                   | %                 | ASTM D638   |
| Flexural Strength                 | 163                                                   | MPa               | ASTM D790   |
| Impact                            | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C)        | 70                                                    | 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   |
| Electrical                        | Nominal Value                                         | Unit              | Test Method |

|                                       |               |         |                |
|---------------------------------------|---------------|---------|----------------|
| Volume Resistivity                    | 1.5E+16       | ohms·cm | IEC 60093      |
| Flammability                          | Nominal Value | Unit    | Test Method    |
| Flame Rating (1.5 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                    | 255 - 265     | °C      |                |
| Nozzle Temperature                    | 250 - 260     | °C      |                |
| Processing (Melt) Temp                | 240 - 250     | °C      |                |
| Mold Temperature                      | 100 - 120     | °C      |                |

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