

# ESTOPLAST XU 5230BB11

Polyamide 6

Ester Industries Ltd.

## Message:

Polyamide 6 - Toughened, Glass Fiber Reinforced, 30%

Automotive: Wheel Assembly, Exterior trim, Interior trim, Electrical components and connectors

Electrical & Electronic: Low voltage switch gear/power distribution, Lighting, Power connectors , MCCB,

| General Information               |                                                       |                   |             |
|-----------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement            | Glass fiber reinforced material, 30% filler by weight |                   |             |
| Additive                          | demoulding                                            |                   |             |
| Features                          | Impact resistance, high                               |                   |             |
|                                   | Good demoulding performance                           |                   |             |
| Uses                              | Lighting Applications                                 |                   |             |
|                                   | Electrical/Electronic Applications                    |                   |             |
|                                   | Connector                                             |                   |             |
|                                   | Application in Automobile Field                       |                   |             |
|                                   | Car interior equipment                                |                   |             |
|                                   | Car exterior decoration                               |                   |             |
| Appearance                        | Black                                                 |                   |             |
| Forms                             | Particle                                              |                   |             |
| Processing Method                 | Injection molding                                     |                   |             |
| Physical                          | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                  | 1.33                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption                  |                                                       |                   | ISO 62      |
| Saturated, 23°C                   | 6.0                                                   | %                 | ISO 62      |
| Equilibrium, 23°C, 50% RH         | 0.95                                                  | %                 | ISO 62      |
| Mechanical                        | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength (Break)          | 131                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Break)        | 4.5                                                   | %                 | ASTM D638   |
| Flexural Strength                 | 210                                                   | MPa               | ASTM D790   |
| Impact                            | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact               | 200                                                   | 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             | 200                                                   | °C                | ASTM D648   |
| Electrical                        | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                | > 1.0E+13                                             | ohms · cm         | ASTM D257   |

|                               |               |       |             |
|-------------------------------|---------------|-------|-------------|
| Dielectric Strength (2.00 mm) | 27            | kV/mm | ASTM D149   |
| Flammability                  | Nominal Value | Unit  | Test Method |
| Flame Rating (1.5 mm)         | HB            |       | UL 94       |
| Injection                     | Nominal Value | Unit  |             |
| Drying Temperature            | 85 - 90       | °C    |             |
| Drying Time                   | 3.0 - 4.0     | hr    |             |
| Rear Temperature              | 235 - 245     | °C    |             |
| Middle Temperature            | 245 - 255     | °C    |             |
| Nozzle Temperature            | 240 - 250     | °C    |             |
| Processing (Melt) Temp        | 240 - 250     | °C    |             |
| Mold Temperature              | 60 - 90       | °C    |             |

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