

# ESTOPLAST XU 150HFNN02

Polyamide 6  
Ester Industries Ltd.

Message:

Polyamide 6 - Unfilled

Automotive: Connector, Housings, Plug & Socket, Handle and Grab Handle

Electrical & Electronic: MCB, RCCB, Energy Meter Parts, Rotor Switch and Sensor

| General Information                                     |                                    |                   |             |
|---------------------------------------------------------|------------------------------------|-------------------|-------------|
| Additive                                                | demoulding                         |                   |             |
| Features                                                | High liquidity                     |                   |             |
|                                                         | Good demoulding performance        |                   |             |
| Uses                                                    | Handle                             |                   |             |
|                                                         | Plug                               |                   |             |
|                                                         | Electrical/Electronic Applications |                   |             |
|                                                         | Connector                          |                   |             |
|                                                         | Application in Automobile Field    |                   |             |
|                                                         | Shell                              |                   |             |
| Appearance                                              | Natural color                      |                   |             |
| Forms                                                   | Particle                           |                   |             |
| Processing Method                                       | Injection molding                  |                   |             |
| Physical                                                | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                                        | 1.13                               | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption                                        |                                    |                   | ISO 62      |
| Saturated, 23°C                                         | 6.0                                | %                 | ISO 62      |
| Equilibrium, 23°C, 50% RH                               | 2.2                                | %                 | ISO 62      |
| Mechanical                                              | Nominal Value                      | Unit              | Test Method |
| Tensile Strength (Yield)                                | 65.0                               | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 15                                 | %                 | ASTM D638   |
| Flexural Strength                                       | 95.0                               | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 65                                 | J/m               | ASTM D256A  |
| Thermal                                                 | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 65.0                               | °C                | ASTM D648   |
| Peak Melting Temperature                                | 222                                | °C                | ASTM D3418  |
| Electrical                                              | Nominal Value                      | Unit              | Test Method |
| Surface Resistivity                                     | 1.0E+11                            | ohms              | IEC 60093   |
| Volume Resistivity                                      | 1.0E+11                            | ohms · cm         | IEC 60093   |

|                        |               |       |             |
|------------------------|---------------|-------|-------------|
| Dielectric Strength    | 25            | 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       | 230 - 250     | °C    |             |
| Middle Temperature     | 235 - 250     | °C    |             |
| Nozzle Temperature     | 235 - 255     | °C    |             |
| Processing (Melt) Temp | 240 - 265     | °C    |             |
| Mold Temperature       | 55 - 80       | °C    |             |

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