

# ESTOPLAST XU 6430IY01

Polyamide 66

Ester Industries Ltd.

## Message:

Polyamide 66 - Flame Retardant, Glass Fiber Reinforcement, 30%

Automotive: Intake manifold, Engine, Powertrain, 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                                            |                   |             |
|                                                         | Flame retardancy                                      |                   |             |
| Features                                                | Good demoulding performance                           |                   |             |
|                                                         | Flame retardancy                                      |                   |             |
| Uses                                                    | Lighting Applications                                 |                   |             |
|                                                         | Electrical/Electronic Applications                    |                   |             |
|                                                         | Connector                                             |                   |             |
|                                                         | Application in Automobile Field                       |                   |             |
| Appearance                                              | Ivory                                                 |                   |             |
| Forms                                                   | Particle                                              |                   |             |
| Processing Method                                       | Injection molding                                     |                   |             |
| Physical                                                | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                        | 1.57                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption                                        |                                                       |                   | ISO 62      |
| Saturated, 23°C                                         | 1.2                                                   | %                 | ISO 62      |
| Equilibrium, 23°C, 50% RH                               | 2.5                                                   | %                 | ISO 62      |
| Mechanical                                              | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength (Break)                                | 115                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 3.4                                                   | %                 | ASTM D638   |
| Flexural Strength                                       | 170                                                   | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C)                              | 30                                                    | J/m               | ASTM D256A  |
| Unnotched Izod Impact (23°C)                            | 350                                                   | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 225                                                   | °C                | ASTM D648   |
| Flammability                                            | Nominal Value                                         |                   | Test Method |
| Flame Rating (1.5 mm)                                   | V-2                                                   |                   | UL 94       |

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 85 - 90       | °C   |
| Drying Time            | 3.0 - 4.0     | hr   |
| Rear Temperature       | 270 - 285     | °C   |
| Middle Temperature     | 280 - 295     | °C   |
| Nozzle Temperature     | 280 - 290     | °C   |
| Processing (Melt) Temp | 275 - 285     | °C   |
| Mold Temperature       | 55 - 80       | °C   |

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