

**Product Description**

Polyamide 6 - Glass Reinforcement, 30%

**Product Applications**

Automotive: Powertrain, Exterior trim, interior trim, Electrical components and connectors

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

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial : Active</li> </ul>
Filler/Reinforcement	<ul style="list-style-type: none"> <li>Glass Filler reinforcement</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Mold Release</li> </ul>
RoHS Compliance	<ul style="list-style-type: none"> <li>ROHS compliant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Non flame retardant</li> </ul>
Appearance/Color	<ul style="list-style-type: none"> <li>Natural</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection molding</li> </ul>

Physical	Typical Value	Unit	Test Method
Density	1.36	g/cm3	ISO 1183
Melt Flow Index (235°C/2.16kgs)	4	Grm/10min	ISO 1133
Water Absorption Saturation, 23°C	1.0	%	ISO 62

Mechanical	Typical Value	Unit	Test Method
Tensile Stress (Break)	172	MPa	ISO 527
Tensile Strain (Break)	4	%	ISO 527
Tensile Modulus	10300	MPa	ISO 527
Flexural Strength	275	MPa	ISO 178
IZOD Impact Strength			
Notch	15	KJ/M2	ISO 180
Un Notch	120		

Thermal	Typical Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa Unannealed	220	°C	ISO 75
1.8 MPa Unannealed	205		

Flammability	Typical Value	Unit	Test Method
Flammability Classification			
1.50mm	HB	Rating	UL94

Electrical	Typical Value	Unit	Test Method
Volume Resistivity	$>10^{13}$	Ohm-cm	IEC 60093
Dielectric Strength (2mm)	27	KV/mm	IEC 60243

**Injection Molding – XU230NN01****Drying Conditions**

Drying Time(hour)	Temperature	Remarks
3-4	80-90°C	Temperature should not be more than 90°C to avoid discoloration Moisture content after drying should be <0.2% Avoid sudden cooling of dry pellet

**Injection Molding Temperatures (°C)**

Mold	Melt	Nozzle	Centre	Feed zone
70 – 90	240 – 250	245 -255	250 -260	235-245

**Physical form and storage**

ESTOPLAST XU is supplied in pellet form. It should be pre-dried as per the guideline mentioned above prior to molding. Standard packing size is 25kg. In order to prevent moisture pick up and contamination, supplied packaging should be kept closed and undamaged.

**Product Safety**

ESTOPLAST XU is thermally stable up to 350°C and does not give rise to hazardous material due to degradation or evolution of gases and vapors. ESTOPLAST XU decomposes above 350°C and gives carbon dioxide and water on charring.  
For more information on safety, refer individual product MSDS. Available on request.

**Note**

All information supplied in this publication is based on our current knowledge and experience. The data provided fall within the normal range of product properties and relate only to the specific material designed. The data provided should not be used to establish specification limits or used alone as the basis of design. ESTER assumes no liability and makes no warranties of any kind, expressed or implied, whatsoever in respect of application, processing or use made of aforementioned information or product.