

Product Description

Polyamide 66 - Glass Fiber Reinforcement 50%, Heat Stabilized

Product Applications

Automotive: Powertrain, Airbag containers, Exterior trim, interior trim, Electrical components and connectors, Radiator Fan

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

General

Material Status	<ul style="list-style-type: none"> Commercial : Active
Availability	<ul style="list-style-type: none"> India
Filler/Reinforcement	<ul style="list-style-type: none"> Glass - Fiber reinforcement , 50%
Forms	<ul style="list-style-type: none"> Pellets
Additive	<ul style="list-style-type: none"> Mold Release
RoHS Compliance	<ul style="list-style-type: none"> ROHS compliant
Features	<ul style="list-style-type: none"> Heat Stabilized
Appearance/Color	<ul style="list-style-type: none"> Black
Processing Method	<ul style="list-style-type: none"> Injection molding

Physical	Typical Value	Unit	Test Method
Density	1.57	gm/cm ³	ISO 1183
Water Absorption			
Saturation, 23°C	3.5 – 5.0	%	ISO 62
Equilibrium, 23°C, 50%RH	1.2 – 1.5		

Mechanical	Typical Value	Unit	Test Method
Tensile Stress at Break	210	MPa	ISO 527
Tensile Strain Break	3.0	%	ISO 527
Tensile Modulus	15500	MPa	ISO 527
Flexural Strength	310	MPa	ISO 178
IZOD Impact Strength			
Notch	12	Kj/m ²	ISO 180

Thermal	Typical Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa Unannealed	255	°C	ISO 75
1.8 MPa Unannealed	245	°C	ISO 75



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

Injection Molding – XU6250HSBK71-I

Drying Conditions

Drying Time(hour)	Temperature	Remarks
3-4	80-90°C	Increase Temperature 10-20 °C or Drying time 1-2 hrs if required. Moisture content after drying should be <0.2% Avoid sudden cooling of dry pellet

Injection Molding Temperatures (°C)

Mold	Melt	Nozzle	Centre	Feed zone
60 – 80	275 – 290	275 -290	270 -285	260-270

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 330°C and does not give rise to hazardous material due to degradation or evolution of gases and vapors. ESTOPLAST XU decomposes above 380°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. RADICI PLASTICS INDIA PVT. LTD 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.