

Product Description

Polyamide 66 - Unfilled

Product Applications

Automotive: Intake manifold, Powertrain, 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"> Commercial : Active
Filler/Reinforcement	<ul style="list-style-type: none"> Unfilled
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
Appearance/Color	<ul style="list-style-type: none"> Natural
Processing Method	<ul style="list-style-type: none"> Injection molding

Physical	Typical Value	Unit	Test Method
Specific Gravity	1.13		ASTM D -792
Water Absorption			
Saturation, 23°C	1.5	%	ISO 62
Equilibrium, 23°C, 50%RH	2.8	%	

Mechanical	Dry	Unit	Test Method
Tensile Stress (Yield)	73	MPa	ASTM D-638
Tensile Strain (Break)	5	%	ASTM D-638
Flexural Strength	115	MPa	ASTM D-790
IZOD Impact Strength			
Notch	65	J/m	ASTM D-256A

Thermal	Dry	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa Unannealed	205	°C	ASTM D-648
1.8 MPa Unannealed	70	°C	ASTM D-648

Injection Molding – XU6100NN01**Drying Conditions**

Drying Time(hour)	Temperature	Remarks
3-4	85-90°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
55 – 80	275 – 285	280 -290	280 -295	270-285

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 400°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

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