

Product Description

Polyamide 66 - Unfilled, Natural, FDA.

Product Applications

Food Contact Applications: Food Processors Parts, Light weight Conveyor (Food Items) Chain links, Cutlery items, etc

General	
Material Status	Commercial : Active
Filler/Reinforcement	No reinforcement
Forms	• Pellets
Additive	Mold Release
RoHS Compliance	ROHS compliant
	 FDA Compliance (US FDA 21
	CFR 177-1500)
	• EN10
Features	Non FR Lubricated
Appearance/Color	Natural
Processing Method	Injection molding

Physical	Typical Value	Unit	Test Method
Density	1.13	g/cm3	ISO 1183
Melt Flow Index (275°C/1.2kgs)	42	Grm/10 min	ISO 1133
Water Absorption Equilibrium, 23°C, 50%RH	2.8	%	ISO 62
Mold Shrinkage			
Across Flow	1.4 to 1.6	%	ISO 294 - 4
Flow	1.3 to 1.5	%	

Mechanical	Typical Value	Unit	Test Method
Tensile Stress at Yield	82	MPa	ISO 527
Tensile Strain at Break	20	%	ISO 527
Tensile Modulus	2900	MPa	ISO 527
Flexural Strength	120	MPa	ISO 178
IZOD Impact Strength			
Notch	5.3	KJ/M2	ISO 180
Unnotch	NB		

Thermal	Typical Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa	70	°C	ISO 75



Product Data Sheet ESTOPLAST XU6100NN01FD [PA66-UF] Compound

Flammability	Typical Value	Unit	Test Method
Flammability Classification 0.8 mm	V-2	Rating	UL-94

Injection Molding – XU6100NN01FD

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 – 285	275 -285	280 -290	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

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