

ESTOPLAST XU 150BB03

Polyamide 6
Ester Industries Ltd.

Message:

Polyamide 6 - Unfilled

Automotive: Switch Parts, Plug & Socket, Handle and Grab Handle

Electrical & Electronic: Energy Meter Parts, Solar Panel Parts, Rotor Switch and Sensor

General Information			
Additive	demoulding		
Features	Good demoulding performance		
Uses	Handle		
	Plug		
	Electrical/Electronic Applications		
	Switch		
	Application in Automobile Field		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Water Absorption			ISO 62
Saturated, 23°C	6.0	%	ISO 62
Equilibrium, 23°C, 50% RH	2.2	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Strength	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
Peak Melting Temperature	222	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+11	ohms · cm	IEC 60093
Dielectric Strength	25	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	85 - 90	°C
Drying Time	3.0 - 4.0	hr
Rear Temperature	230 - 250	°C
Middle Temperature	235 - 250	°C
Nozzle Temperature	235 - 255	°C
Processing (Melt) Temp	240 - 265	°C
Mold Temperature	55 - 80	°C

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