

ESTOPLAST XU 230GY45

Polyamide 6
Ester Industries Ltd.

Message:

Polyamide 6 - Glass Fiber Reinforced, 30%

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

Electrical & Electronic: MCB, RCCB, Rotor Switch, Relay, Inverter Parts and Terminal Block

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	demoulding		
Features	Good demoulding performance		
Uses	Handle		
	Plug		
	Electrical/Electronic Applications		
	Switch		
	Application in Automobile Field		
Appearance	Grey		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Water Absorption			ISO 62
Saturated, 23°C	6.0	%	ISO 62
Equilibrium, 23°C, 50% RH	0.95	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	120	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Strength	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	215	°C	ASTM D648
1.8 MPa, not annealed	205	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms · cm	ASTM D257
Dielectric Strength (2.00 mm)	27	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 - 240	°C
Middle Temperature	235 - 255	°C
Nozzle Temperature	235 - 260	°C
Processing (Melt) Temp	240 - 265	°C
Mold Temperature	55 - 80	°C

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Recommended distributors for this material

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