

ESTOPLAST XU 4301NN01

Polyamide 6

Ester Industries Ltd.

Message:

Polyamide 6 - Mineral and Glass Fiber Reinforced, 30%

Automotive: Intake manifold, Engine, Powertrain, Exterior trim, Interior trim, Electrical components and connectors

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

General Information			
Filler / Reinforcement	Glass \mineral, 30% filler by weight		
Additive	demoulding		
	Flame retardancy		
Features	Phosphorus content, low (to none)		
	Good demoulding performance		
	Halogen-free		
	Flame retardancy		
Uses	Lighting Applications		
	Electrical/Electronic Applications		
	Connector		
	Application in Automobile Field		
	Car interior equipment		
	Car exterior decoration		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Water Absorption			ISO 62
Saturated, 23°C	5.5	%	ISO 62
Equilibrium, 23°C, 50% RH	0.95	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	63.0	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	45	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	200	°C	ASTM D648
1.8 MPa, not annealed	185	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (2.00 mm)	22	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
1.2 mm	960	°C	IEC 60695-2-12
3.0 mm	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	85 - 90	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	235 - 245	°C	
Middle Temperature	235 - 255	°C	
Nozzle Temperature	235 - 255	°C	
Processing (Melt) Temp	235 - 255	°C	
Mold Temperature	55 - 80	°C	

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