

ESTOPLAST XU 315GY01

Polyamide 6
Ester Industries Ltd.

Message:

Polyamide 6 - Mineral Filled, 15%
Automotive: Lighting Parts including Head lamp/Tail lamp, Interior Parts
Electrical & Electronic: Switch Parts, Lighting, Power connectors

General Information			
Filler / Reinforcement	Mineral filler, 15% filler by weight		
Additive	demoulding		
Features	High Dimensional Stability		
	Good demoulding performance		
Uses	Lighting Applications		
	Electrical/Electronic Applications		
	Switch		
	Connector		
	Application in Automobile Field		
	Car interior parts		
Appearance	Grey		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	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)	55.0	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Strength	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	55	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	200	°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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