

ESTOPLAST XU 517BB11

Polyamide 6
Ester Industries Ltd.

Message:

Polyamide 6 - Unfilled, Impact Modified (Toughened)
Automotive: Bumper Facia Part, Electrical components and connectors
Electrical & Electronic: Lighting, Power connectors ,

General Information			
Additive	Impact modifier demoulding		
Features	Impact modification Impact resistance, high Good demoulding performance		
Uses	Lighting Applications Electrical/Electronic Applications Connector Car anti-collision bar Application in Automobile Field		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage	1.4	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	5.8	%	ISO 62
Equilibrium, 23°C, 50% RH	2.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	49.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Strength	72.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648
Peak Melting Temperature	222	°C	ASTM D3418

Electrical	Nominal Value	Unit	Test Method
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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