

ESTOPLAST EP 2130BB12

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Glass Fiber/Mineral filled, 30%

Automotive: Interior Parts like instrument cluster parts

Electrical & Electronic: Bobbins, Lightings and Lamp fittings, Housings

General Information			
Filler / Reinforcement	Glass \mineral, 30% filler by weight		
Additive	demoulding		
Features	Good demoulding performance		
Uses	Lighting Applications		
	Electrical/Electronic Applications		
	Application in Automobile Field		
	Car interior parts		
	Car dashboard		
	Shell		
	spool		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm³	ASTM D792
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	95.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Unnotched Izod Impact (23°C)	570	J/m	ASTM D256
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	205	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.2 mm)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	110 - 120	°C
Drying Time	3.0 - 4.0	hr
Rear Temperature	235 - 240	°C
Middle Temperature	250 - 260	°C
Nozzle Temperature	250 - 260	°C
Processing (Melt) Temp	240 - 250	°C
Mold Temperature	100 - 120	°C

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