

ESTOPLAST EP 2010BB11

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Glass Fiber Reinforcement, 10%

Automotive: Interior Parts

Electrical & Electronic: Bobbins, E-motor components, Lightings and Lamp fittings

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	demoulding		
Features	Good demoulding performance		
Uses	Lighting Applications		
	Electrical/Electronic Applications		
	Application in Automobile Field		
	Car interior parts		
	spool		
Appearance	Black		
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	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	80.0	MPa	ASTM D638
Tensile Elongation (Break)	4.1	%	ASTM D638
Flexural Strength	135	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	35	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	220	°C	ASTM D648
1.8 MPa, not annealed	200	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	ASTM D257
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
0.75 mm	HB	UL 94
1.5 mm	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	110 - 120	°C
Drying Time	3.0 - 4.0	hr
Rear Temperature	235 - 245	°C
Middle Temperature	250 - 260	°C
Nozzle Temperature	245 - 255	°C
Processing (Melt) Temp	240 - 250	°C
Mold Temperature	100 - 120	°C

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