

ESTOPLAST EP 2030BR02

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Glass Fiber Reinforcement, 30%

Automotive: Plug and socket Connectors, Head/Tail Lamp Housings

Electrical & Electronic: Connectors, Switch Parts, Electrical Enclosure

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	demoulding		
Features	Good demoulding performance		
Uses	Plug		
	Electrical/Electronic Applications		
	Switch		
	Connector		
	Application in Automobile Field		
	Shell		
RoHS Compliance	RoHS compliance		
Appearance	Brown		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm³	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)	105	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Strength	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	50	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	430	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 - 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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