

ESTOPLAST EP 4030NGY144

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - 30% Glass Fiber Reinforcement, Flame Retardant
Automotive: Interior Parts like Instrument Cluster and E&E parts
Electrical & Electronic: Switch Parts, MCB, RCCB, Electrical Enclosure, Relay and Sensor

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	demoulding		
	Flame retardancy		
Features	Good demoulding performance		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Switch		
	Application in Automobile Field		
	Car interior parts		
	Car dashboard		
RoHS Compliance	RoHS compliance		
Appearance	Grey		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	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)	110	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Strength	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	52	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	195	°C	ASTM D648

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	V-0		UL 94
Glow Wire Flammability Index (1.2 mm)	960	°C	IEC 60695-2-12
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	250 - 255	°C	
Processing (Melt) Temp	245 - 255	°C	
Mold Temperature	80 - 110	°C	

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Recommended distributors for this material

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