

ESTOPLAST EP 2050BB21

Polybutylene Terephthalate + PET
Ester Industries Ltd.

Message:

Polybutylene Terephthalate + PET - Glass Fiber Reinforcement, 50%
Automotive: Exterior Parts and Interior Parts like side mirror parts, AC fins

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Additive	demoulding		
Features	Good demoulding performance		
Uses	Application in Automobile Field		
	Car interior parts		
	Automotive exterior parts		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.74	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)	158	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Strength	230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	760	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	205	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	

Drying Time	3.0 - 4.0	hr
Rear Temperature	265 - 270	°C
Middle Temperature	260 - 280	°C
Nozzle Temperature	260 - 270	°C
Processing (Melt) Temp	260 - 270	°C
Mold Temperature	80 - 100	°C

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