

ESTOPLAST MG 7120BB01

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polyethylene Terephthalate - 20% Mineral filled, Black

Automotive: Exterior Parts- Auto lighting parts including head/tail lamps

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	demoulding		
Features	Good dimensional stability		
	Good demoulding performance		
Uses	Lighting Applications		
	Application in Automobile Field		
	Automotive exterior parts		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Water Absorption			ISO 62
Saturated, 23°C	0.45	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	50.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Strength	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256
Unnotched Izod Impact	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	240	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.5 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	105 - 115	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	270 - 280	°C	

Middle Temperature	270 - 290	°C
Nozzle Temperature	270 - 285	°C
Processing (Melt) Temp	270 - 290	°C
Mold Temperature	100 - 120	°C

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