

ESTOPLAST EP 4000BB11

Polybutylene Terephthalate
Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Unfilled Flame Retardant
Automotive: Interior Parts, E&E parts
Electrical & Electronic: Housings, Covers, connectors

General Information			
Additive	demoulding		
	Flame retardancy		
Features	Good demoulding performance		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Connector		
	Application in Automobile Field		
	Car interior parts		
	Shell		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	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 (Yield)	62.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Strength	105	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	38	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	65.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94
Glow Wire Flammability Index (3.0 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 - 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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