

ESTOPLAST EP 5010BB29

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Unfilled
Automotive: Connectors, Housings and Bumper Fascia Parts
Electrical & Electronic: Bobbins, Ignition Coil and Electrical Enclosure

General Information			
Features	Impact resistance, high		
	Extended tensile rate		
	Medium viscosity		
Uses	Electrical/Electronic Applications		
	Connector		
	Application in Automobile Field		
	Shell		
	spool		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.0	MPa	ASTM D638
Tensile Elongation (Break)	65	%	ASTM D638
Flexural Strength	55.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	160	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	No Break		ASTM D256
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	55.0	°C	ASTM D648
Flammability	Nominal Value		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	235 - 240	°C
Middle Temperature	250 - 260	°C
Nozzle Temperature	250 - 260	°C
Processing (Melt) Temp	240 - 250	°C
Mold Temperature	80 - 110	°C

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