

ESTOPLAST EP 1500GY11

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Unfilled

Automotive: Medium viscosity, Head Lamp Bezel

Electrical & Electronic: E-motor components, Lightings and Lamp fittings, Base and Cover

General Information			
Additive	demoulding		
Features	Good demoulding performance		
	Medium viscosity		
Uses	Lighting Applications		
	Electrical/Electronic Applications		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Appearance	Grey		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	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)	55.0	MPa	ASTM D638
Tensile Elongation (Break)	> 15	%	ASTM D638
Flexural Strength	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	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	140	°C	ASTM D648
1.8 MPa, not annealed	70.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94
0.75 mm	HB	UL 94
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	100 - 120	°C

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