

ESTOPLAST EP 3020NN01

Polybutylene Terephthalate + PET

Ester Industries Ltd.

Message:

Polybutylene Terephthalate + PET - Mineral Filled, 20%

Automotive: Plug and socket Connectors, Sensors and Head Lamp Bezel

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

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	demoulding		
Features	Electroplating		
	Good demoulding performance		
Uses	Lighting Applications		
	Plug		
	Electrical/Electronic Applications		
	Connector		
	Application in Automobile Field		
	spool		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	50.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Strength	98.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	205	°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	240 - 250	°C
Middle Temperature	255 - 265	°C
Nozzle Temperature	250 - 260	°C
Processing (Melt) Temp	250 - 260	°C
Mold Temperature	100 - 120	°C

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