

ESTOPLAST EP 2020WS20

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Glass Fiber Reinforcement, 20%

Automotive: Interior parts

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

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	demoulding		
Features	Good demoulding performance		
Uses	Lighting Applications		
	Electrical/Electronic Applications		
	Application in Automobile Field		
	Car interior parts		
	spool		
RoHS Compliance	RoHS compliance		
Appearance	White		
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	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	105	MPa	ASTM D638
Tensile Elongation (Break)	3.2	%	ASTM D638
Flexural Strength	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	220	°C	ASTM D648
1.8 MPa, not annealed	200	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	ASTM D257
Comparative Tracking Index (CTI)	PLC 2		UL 746

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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