

ESTOPLAST EP 4020UVWW26

Polybutylene Terephthalate

Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Flame Retardant, Glass Fiber Reinforcement, 20%
Automotive: Interior Parts and E&E Parts
Electrical & Electronic: CFL Parts, LED parts, Housings, Electrical enclosure

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	demoulding		
	UV stabilizer		
	Flame retardancy		
Features	UV Stabilized		
	Good demoulding performance		
	Flame retardancy		
Uses	LEDs		
	Lighting Applications		
	Electrical/Electronic Applications		
	Application in Automobile Field		
	Car interior parts		
	Shell		
RoHS Compliance	RoHS compliance		
Appearance	White		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	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)	100	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Strength	162	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	57	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	195	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.5E+16	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-0		UL 94
Glow Wire Flammability Index (1.2 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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

