

ESTOPLAST EP 4000NN01

Polybutylene Terephthalate
Ester Industries Ltd.

Message:

Polybutylene Terephthalate - Unreinforced Flame Retardant
Automotive: Interior Parts and E&E parts
Electrical & Electronic: Energy Meter Parts, Electrical enclosure, Fuse Box and Housings

General Information			
Additive	demoulding		
	Flame retardancy		
Features	Good demoulding performance		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
	Car interior parts		
	Shell		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	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 (Yield)	60.0	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Strength	105	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ASTM D256A
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	65.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.5 mm)	V-0	UL 94
Glow Wire Flammability Index (3.0 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	80 - 110	°C

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