

**Product Description**

Polybutylene Terephthalate - Unfilled

**Product Applications**

Electrical & Electronics - High viscosity material suitable for extrusion/injection molding grade.

**General**

Material Status	• Commercial : Active
Filler/Reinforcement	• Unfilled
Forms	• Pellets
Additive	• Mold Release
RoHS Compliance	• ROHS compliant
Features	• Medium Viscosity
Appearance	• Natural
Processing Method	• Extrusion / Injection

Physical	Typical Value	Unit	Test Method
Specific Gravity	1.30		ASTM D -792
Water Absorption			
Saturation, 23°C	0.5	%	ISO-62
Equilibrium, 23°C, 50%RH	0.25	%	

Mechanical	Dry	Unit	Test Method
Tensile Stress (Yield)	55	MPa	ASTM D-638
Tensile Strain (Break)	>50	%	ASTM D-638
Flexural Strength	85	MPa	ASTM D-790
IZOD Impact Strength (23°C)			
Notch	60	J/m	ASTM D-256A
Unnotch	NB	J/m	

Thermal	Dry	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa Unannealed	140	°C	ASTM D-648
1.8 MPa Unannealed	70	°C	ASTM D-648

Flammability	Dry	Unit	Test Method
Flammability Classification			
0.75mm	HB	-	UL - 94
1.50mm	HB	-	

Electrical	Dry	Unit	Test Method
Comparative Tracking Index Volume Resistivity	550 1.E <sup>+14</sup>	V Ohm-cm	IEC 60112 ASTM D 257

### Injection Molding – EP1500E

### Drying Conditions

Drying Time(hour)	Temperature	Remarks
3-4	110-120°C	Temperature should not be more than 120°C to avoid discoloration Moisture content after drying should be <0.2% Avoid sudden cooling of dry pellet

### Processing Temperature - Extrusion

Feed	Zone 1	Zone 2	Zone 3	Zone 4	Die
210 - 220	240 - 245	245 – 250	245 -250	250 -255	245-250

### Physical form and storage

ESTOPLAST EP is supplied in pellet form. It should be pre-dried as per the guideline mentioned above prior to molding. Standard packing size is 25kg. In order to prevent moisture pick up and contamination, supplied packaging should be kept closed and undamaged.

### Product Safety

ESTOPLAST EP is thermally stable up to 280°C and does not give rise to hazardous material due to degradation or evolution of gases and vapors. ESTOPLAST EP decomposes above 350°C and gives unsaturated hydrocarbons and small quantity of aldehydes.

For more information on safety, refer individual product MSDS. Available on request.

### Note

All information supplied in this publication is based on our current knowledge and experience. The data provided fall within the normal range of product properties and relate only to the specific material designed. The data provided should not be used to establish specification limits or used alone as the basis of design. ESTER assumes no liability and makes no warranties of any kind, expressed or implied, whatsoever in respect of application, processing or use made of aforementioned information or product.