

# ESTOPLAST EP 2020

Polybutylene Terephthalate

Ester Industries Ltd.

## Message:

ESTOPLAST EP 2020 is a Polybutylene Terephthalate (PBT) product filled with glass fiber. It is available in Africa & Middle East or Europe. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D570
Flow	0.45	%	
Across Flow	1.3	%	
Water Absorption (Saturation)	0.30	%	DIN 53495/1L
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ASTM D638
Tensile Strength	117	MPa	ASTM D638
Flexural Strength	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	90	J/m	ASTM D256
Unnotched Izod Impact	850	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	220	°C	
1.8 MPa, Unannealed	205	°C	
Melting Temperature	224	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1
Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94

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