

PET (Continuous Poly-condensation) / POY Plant for Sale

Capacity

PET melt 180 tons per day
POY yarn 60 tons per day
Staple fiber 40 tons per day

Process and Machinery

Zimmer of Germany
Barmag of Germany
Neumag AG

Raw Materials

Pure terephthalic acid (PTA)
Ethylene glycol (EG)

Plant History

1998 – Commissioned

Major Equipment

Zimmer spinning BN-90 craft winder
Barmag spinning machine ES11
Catalyst solution system
Delustering system
Paste preparation vessel
Esterification reactor
Rectification column
Cascade reactor
Poly-condensation reactor
Heat-transfer-medium system
Heat-transfer-medium vapor system
Spinneret
Spin pack and tube
Continuous melt polymer filter
Polymer heat exchanger
Air dryers



BRIEF PLANT DESCRIPTION

The plant includes three production units: Continuous Polycondensation Unit (CPU), POY (Partially Pulled Yarn) Spinning and PET Staple Fiber Spinning. CPU is designed for the continuous production of polyester (polyethylene terephthalate "PET) starting from pure terephthalic acid (PTA) and ethylene glycol (EG). CPU includes the processes of bag uploading, catalyst system, delustering system, paste preparation, esterification, prepolycondensation, and final polycondensation. The polycondensation is carried out by 4 reactors designed by Zimmer.

POY Unit has 3 direct spinning lines with totally 468 spinning points from Zimmer (spinnerettes diameter 100 mm and 85 mm) and 1 polyester chip spinning line from Barmag (spinnerettes diameter 80 mm). It has a central polymer filter with 15 microns finesse.

The plant can also produce staple fiber by Neumag machine.

The plant has Honeywell CDU-9000 control system. All auxiliary equipment available, such as steam generator, catalyst preparation tanks.

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