

Capacity

Maximum 450 tons per day Minimum 150 tons per day

Product

PET resin for food grade bottle
PET resin for textile

Raw Material

PTA (purified terephthalic acid)

Plant Status

Completely new PET reaction trains and SSP plant has been idled since they were built. Their equipment is new and never used.

Process Technology

DuPont UOP

Major Equipment

- Esterification reactor
- Up-Flow Pre-polymerization reactor
- Oligomer system
- Polymerization reactor
- Finisher
- Chip extruder
- Pre-crystallizer
- Crystallizer
- Hot conveying system
- SSP reaction column
- Cooling fluidized bed
- NPU oxidation reactor
- Yokogawa DCS system

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450 TPD PET & SSP Plants for Sale









BRIEF PLANT DESCRIPTION

The PET reaction trains use the technology from DuPont for TPA based esterification process and the upgrades to enhance the polymerization capacity. This technology includes six (6) process sections: PTA & MEG slurry mixing, esterification, catalyst and additive injection, pre-polymerization, polymerization, and ship formation. The pre-polymerization uses glycol enhanced mass transfer without mechanical agitation. The polymerization occurs by a cage-type finisher agitator without central shaft. Continuous wiping of finisher vessel wall eliminates degradation. The product bottle resin has polymer IV 0.6 (+/- 0.01), catalyst concentration less than 250 PPM as Sb, DEG content 1.2% in polymer, IPA 2.15% weight, toner (Cobalt Acetate) 60 PPM, phosphoric acid 20 PPM, COOH 40, acetaldehyde 90 PPM, moisture content 0.2%, bottle chip weight 15 – 18 mg/chip, chip size 3.0 X 2.0 X 2.5 mm. The SSP (Solid State Polymerization) plant uses UOP technology further processes the PET resin of 0.60 dl/g IV into 0.84 dl/g IV, which is bottle grade quality resin. The SSP process includes 4 steps: (1) crystallization, (2) annealing, (3) SSP reaction, (4) cooling.