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press information

AQUAFIL 2-Reactor PET Technology for Bottle Production

After installation of AQUAFIL 2-Reactor Polyester Plants for film and tire cord application, the AQUAFIL Engineering 2-Reactor Technology has been sold at the beginning of 2007 to the well-known company Indorama Polymers Public Company Ltd. / Asia PET (Thailand) Ltd.

The new AQUAFIL 2-Reactor Polyester Plant is successfully operating since October 2008 and is expanding the existing amorphous chip capacity up to 180.000 tons per year. Indorama Polymers Public Company Ltd / Asia PET Ltd. benefit from the low production and investment costs of the new plant to produce polyester bottle chips.

AQUAFIL Engineering has long experiences in building and designing continuous and batch polycondensation plants for PET polymers for textile, film and bottle grades. The first time the 2-Reactor Polyester Technology has been presented at the end of 2003. Until today Aquafil Engineering has sold 8 plants of 2-Reactor Polyester Technology (only for Polyplex three plants) for various applications, also with further direct processing of melt. The process steps of Esterification 1, Esterification 2 and Prepoly has been incorporated into one new designed reactor, which is called UPR[®], Universal Polymerization Reactor. The last process step is carried out in the famous Disc-Ring-Cage Reactor, short DRC[®], which is a finisher with cage and disc rings.

The 2-Reactor Polyester Technology can be used for capacities up to 600 t/d in one line.

UPR[®] advantages for 2-Reactor Technology

- Less equipment cost
- Less utility consumption
- Shorter hold-up and reaction time
- Lower AA-generation
- Lower oligomer formation and losses
- Reduced space and building cost
- Shorter project realization time



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