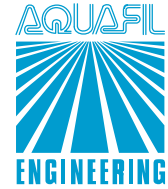


press information



Polyester Recycling Technology

High Viscosity Solutions of AQUAFIL Engineering

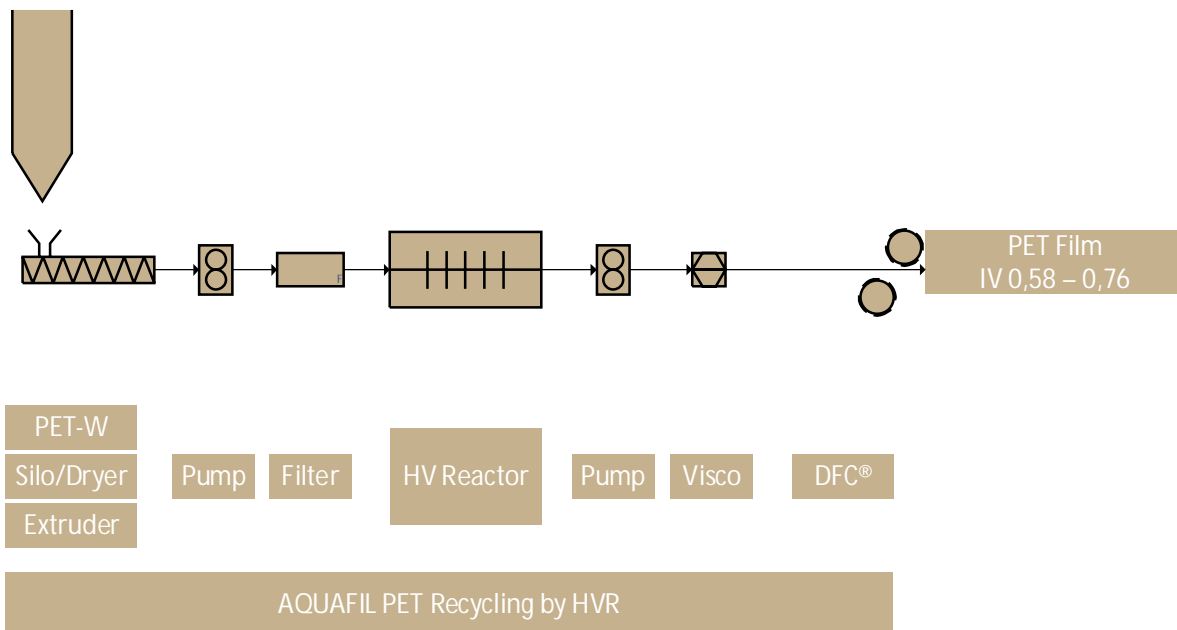
AQUAFIL Engineering works besides his main business* since decades as pioneer in the recycling field and launched already several recycling innovations - such as LDR® (Lactam Direct Recycling).

In the following AQUAFIL Engineering is presenting different new polyester recycling solutions according to customer needs.

AQUAFIL PET Recycling by High Viscosity Reactor (HVR)

For recyclers who require higher and stable polymer viscosity and quality for their final product, AQUAFIL Engineering offers the High Viscosity Reactor (HVR) process. The system comes complete with accessories, is skid mounted, piped, wired and installed in shortest time behind an extrusion line.

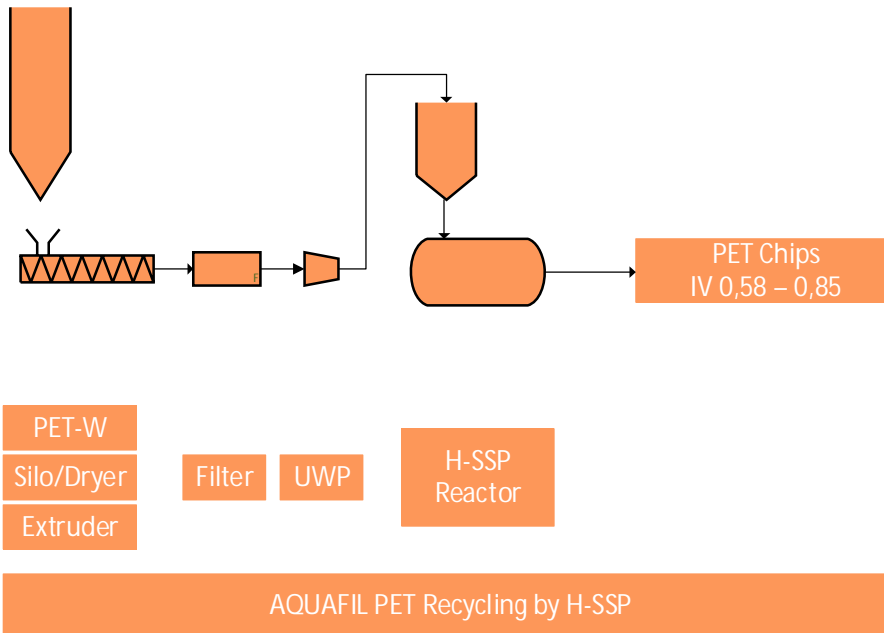
Depending on the final product application, the viscosity can be reduced or increased. The system can be used also in connection with the direct spinning or film/sheet casting (see application example).



* Main business of AQUAFIL Engineering is the supply of polyamide and polyester polymer plants with own know how, technology and equipment design. AQUAFIL Engineering delivers high quality engineering and equipment based on long experiences and innovations.

AQUAFIL PET Recycling by Horizontal Solid State Polycondensation (H-SSP)

For recyclers without polycondensation plant and the requirement of viscosity increase, AQUAFIL Engineering is offering the Horizontal Solid State Polycondensation (H-SSP) including all accessories. The complete system comes skid mounted, piped, wired and can be installed behind an extrusion line. The system is used to produce PET chips of different viscosities (see application example).



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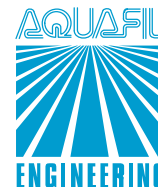
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press information



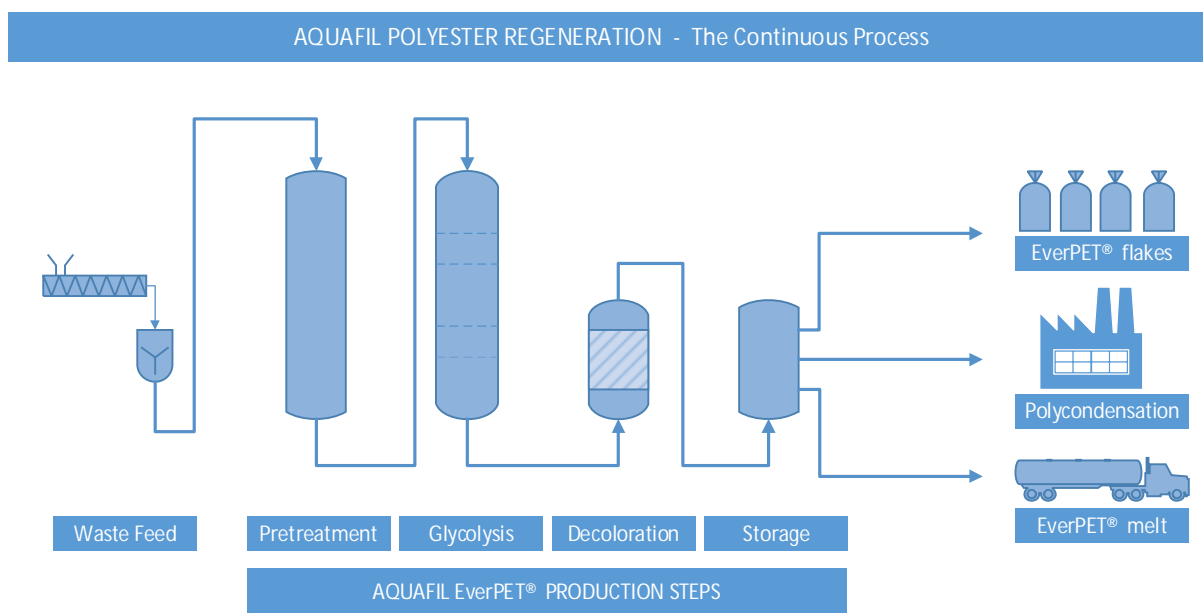
Polyester Recycling Technology

EverPET® - mechanical and chemical recycling at its best

AQUAFIL Engineering works besides his main business* since decades as pioneer in the recycling field and launched already several recycling innovations - such as LDR® (Lactam Direct Recycling).

Respect for the environment, sustainability and the protection of natural resources: These are major objectives that AQUAFIL Engineering and its customers can attain today thanks to **EverPET®**.

AQUAFIL Engineering invented **EverPET®** = a quick, continuous and multistep glycolysis process, which produces a high, medium or low glycolised liquid/melt. The EverPET® oligomer can be stored as liquid, directly used in a polycondensation line or flaked. The AQUAFIL Engineering invention of flaking of the EverPET® melt opens up the new possibility of long storage and sales of polyester oligomers as solid flakes in big bags.



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EverPET® - internal

You have internal "waste" of your production lines such as spin or trim "waste"?

You have a mechanical recycling extruder/system and the final recycling quality is not like virgin material ?

EverPET® solves your problems of the mechanical recycling extrusion lines. Today there are not any longer limitations for direct production lines such as direct spinning (DSP) and direct film casting (DFC®)

For usage of internal "waste", the process steps "Pretreatment" and "Decoloration" might be not necessary.

EverPET® - industrial / consumer

AQUAFIL Engineering is following the idea of a closed loop production. Post-industrial and –consumer waste are collected, separated from other coarse material like metal and washed. After this normal procedure the EverPET® process starts. Even the usage of colored raw material can be handled by the EverPET® process as it is equipped with a continuous decoloration reactor.

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