



Semi-Chemical Recycled PET Bottle Resin



SHINKONG
SYNTHETIC FIBERS
CORPORATION

rPET is the Future



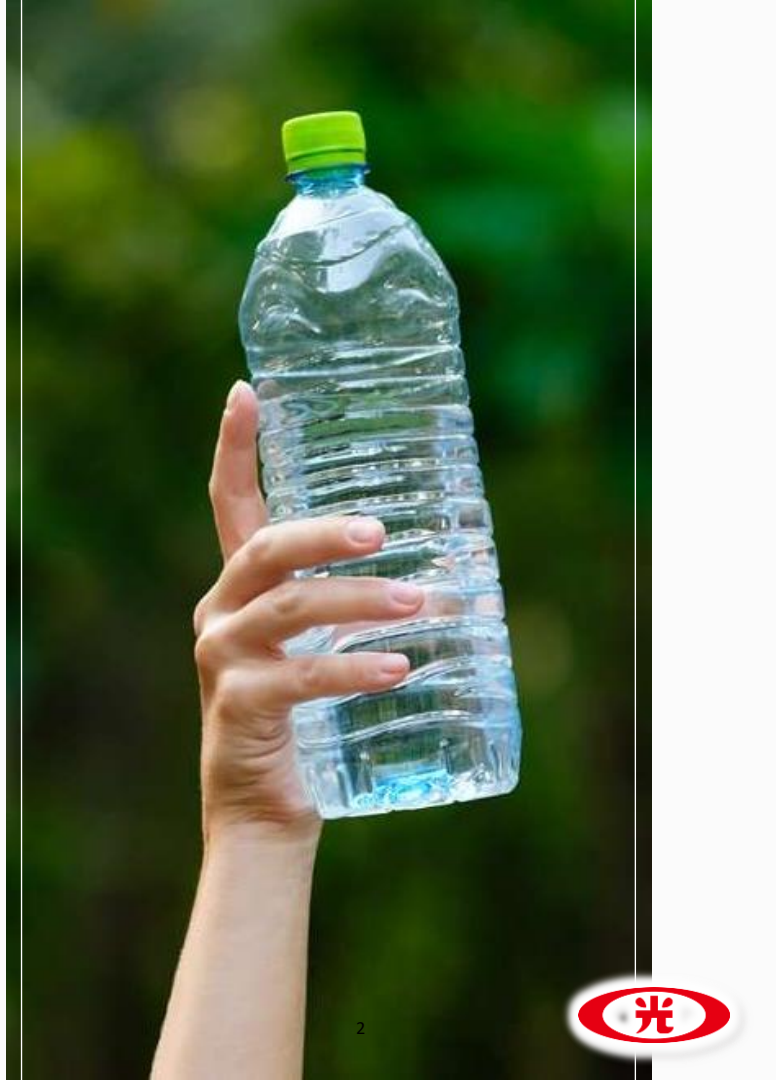
PET has the highest recycling rate of all plastics around 30-90 %.



The carbon footprint of the rPET process is much less than that of re-manufactured glass bottles.



rPET is the only recycled plastic that can be used in food contact approved by US FDA, EU EFSA, Japan MHLW.



Announcements to **Achieve**



2030

rPET > 50%



2025

rPET > 33%



2025

rPET > 35%



2025

rPET > 50%



2030

rPET > 60%



2030

rPET in Tea products = 100%



2027

rPET > 50%



2030

rPET > 70%





Carbon Neutrality

Environment Sustainability

Economy Circularity

FTR® Flakes-To-Resin

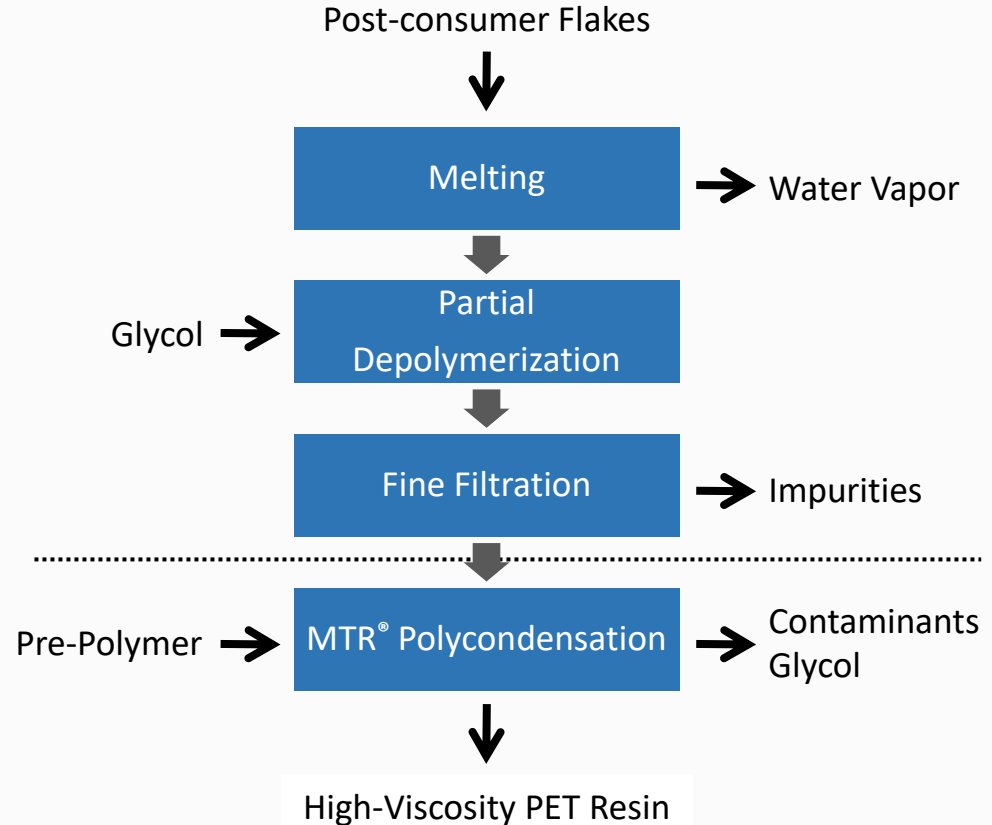
Fully integrated high-quality semi-chemical PET recycling process:



Filtration of material at a low viscosity level, which makes it easier to remove impurities



Elimination of impurities & rebuild to virgin-like PET



FTR cr-PET v.s. 100% mr-PET

ADVANTAGES

1

Reduce Equipment
Investment and Labor

2

Better and
More Steady Blending
Consistent Quality

3

Flexible rPET
Content up to 50%

4

Simple Inventory
Management

5

Better Purity

6

Maintain a Stable
Composition as Virgin
PET



WE BRING !

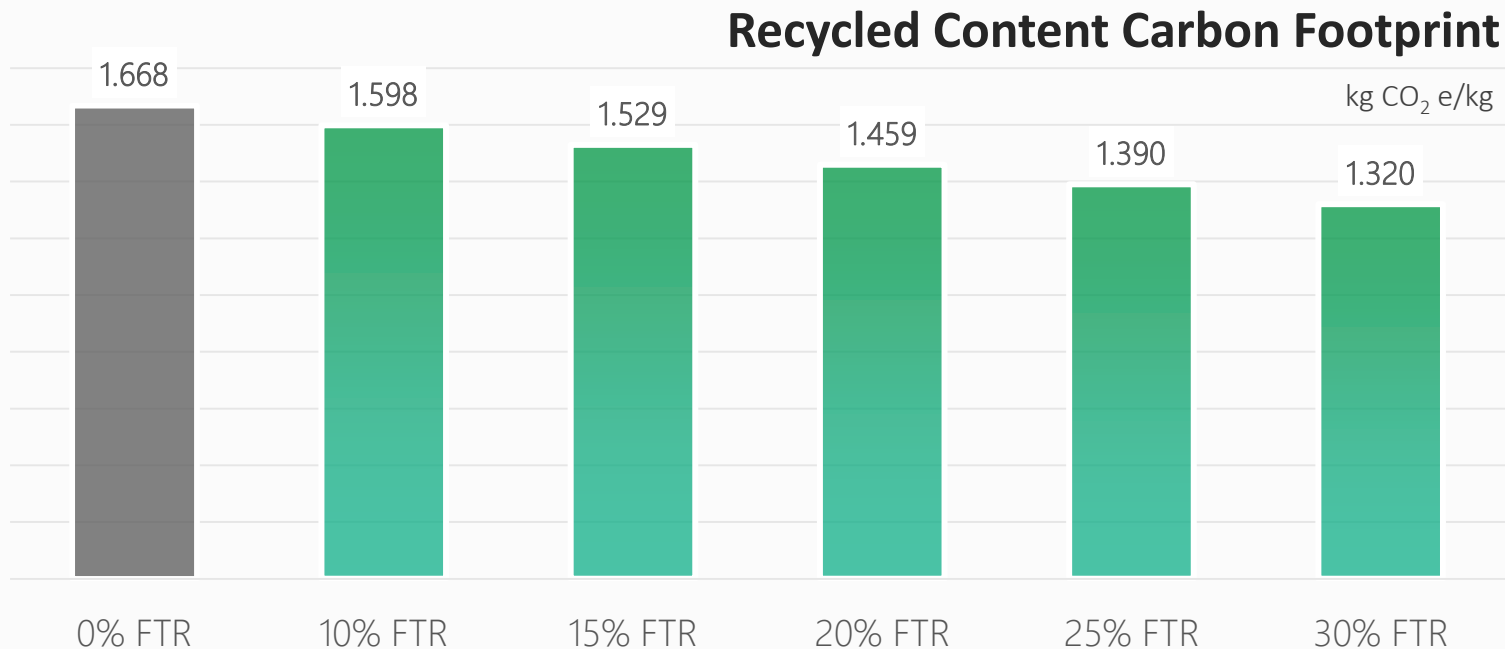
FTR cr-PET is **Better** on

Comparing with
Petrochemical v-PET

- ✓ Reduce Equipment Investment & Labor
- ✓ Steady Blending
- ✓ Flexible rPET Content up to 50%
- ✓ Simple Inventory Management
- ✓ Reduce Carbon Footprint





Low-Carbon is Healthy to THE **Earth**




The graph shows industrial Average PET with no FTR, and then 5 to 30% FTR content

Clean for Food Contact

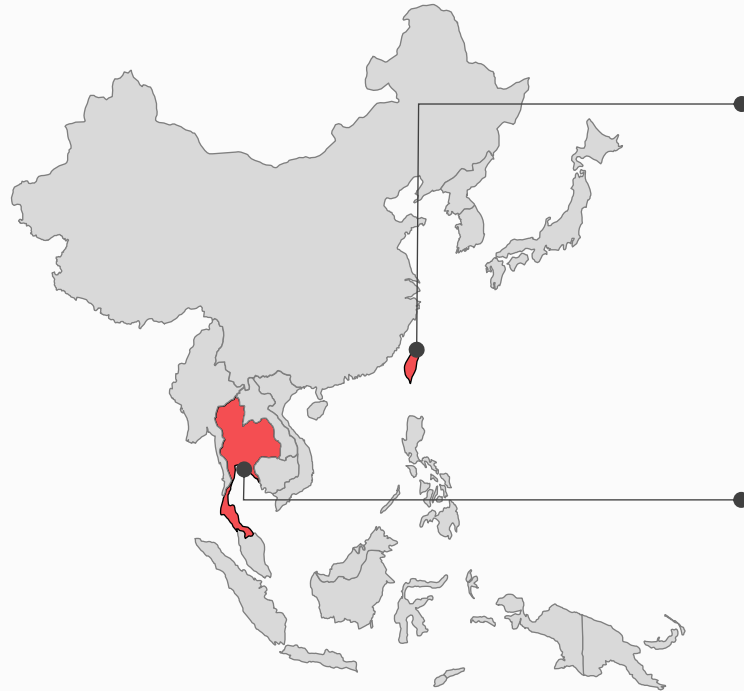
 All contaminants are removed from the product at the latest in the DICAGE[®] reactor, which can be regarded as the most efficient degassing device.

 Cleaning efficiency has been tested successfully in a challenge test.

 FTR[®] is approved by US Food and Drug Administration (FDA) and by the European EFSA for food-contact applications.



PET Resin Production Sites & Capacity



Taiwan

2 sets of Virgin PET
320,000 metric ton/year

1 set of Recycled PET *Mechanical*
28,000 metric ton/year







Thailand

1 set of Virgin PET
180,000 metric ton/year

1 set of Switchable 30% rPET
Semi-Chemical
210,000 metric ton/year

Compare Petro Virgin & 3 Recycling Processes of PET

	 Petro Virgin	 Mechanical	 Semi-Chemical	 Chemical
Carbon Footprint	High	Low	Low	Low
Global Capacity	≈ 46,000	≈ 2,200	≈ 600	≈ 235 <small>k·ton/year</small>
Purity	High	Medium	High	High
Single-Pellet	✓	✗	✓	✓



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