



 ECO-RPET



Eco Polymers AG

Eco Polymers AG is a Joint Venture between

- STF Group Germany
- HERTEX AG Switzerland

STF Recycling GmbH is one of the leading PET-Recycling companies in Europe with a yearly processing of 100'000 tons PET-bottles, allocated at Aicha vorm Wald, Gelsenkirchen and Bremerhaven.

Since more than 25 years **HERTEX AG** is successfully distributing raw materials for the packaging- and the textile industry.

The main markets for the Eco Polymers products are:

- bottle industry
- foil and sheet industry
- fibres and textile industry





Our Vision

To expand our position as Europe's major PET Recycler and to offer eco sensitive solutions for the packaging industry.





Range of products

Eco-Polymers AG offers a broad range of high-quality PET Flakes and PET Regranulates (Eco-RPET).

STF Recycling has a yearly output of ca. 80'000 tons.

Until the end of 2009 ca. 20'000 tons therefrom will be used for PET Regranulates.

The Eco-RPET is produced on a Starlinger Recycling machine and the viscosity (I.V. value) can be adjusted individually.

**Our Eco-RPET ist the perfect alternative to PET virgin,
but much more eco sensitive!**



PET Cycle

Our Eco-RPET is produced from PET Flakes which are recovered out of PET «post consumer bottles».

Depending on the application the Eco-RPET can be utilized 100% entirely.

The preform- and bottle producers mix 50% Eco-RPET with 50% PET virgin.

The PET bottle cycle





PET facts

Worldwide have been produced 14'500'000 tons of PET virgin in 2008. Only 5,7% (830'000 tons) therefrom was RPET.

About 30% of the PET bottles worldwide have been recycled on average.

The growth rate for PET virgin from 2003 til 2009:

- Western Europe: + 4.5%
- Eastern Europe: + 9.6%
- Worldwide: + 6.5%

The growth rate for RPET:

- Worldwide: + 9.6%





Production

The complete Eco-RPET Production is subject to a complete quality surveillance which guarantees a constant high quality for your customers.

We are committed to comply the quality surveillance standards of the following individual Institutions:

- **FDA approval**
- Eco-RPET complies the guidelines of the **Bundesinstitut für Risikobewertung (BfR)**
- Eco-RPET complies the guidelines of the **International Life Sciences Institute (ILSI)**
- Complies the **EU Plastics Directive 2002/82/EC**
- **Certified by DIN EN ISO 9001:2000**

Using 1 ton Eco-RPET saves up to 1.5 tons CO₂ !



PET virgin in comparison with Eco-RPET

PROPERTIES	PET virgin	Eco-RPET
Specific Viscosity:	0.80 +/- 0.02	0.80 +/- 0.02
Color:	b - value: ≤ 0.0	b - value: -2 bis -0.5
	L - value: > 80	L - value: > 67
Acetaldehyde:	≤ 1 ppm	≤ 1 ppm
Dust content :	≤ 0.01	≤ 0.01
Moisture:	≤ 0.2 %	≤ 0.2 %
Melting point:	ca. 240-250°C	ca. 240-250°C

The only difference is the color!



Summary

- Eco-RPET is an economic and ecosensitive alternative to PET virgin
- Eco-RPET can be used up to 100% depending on the application. The preform and bottle producers are mixing 50% PET virgin with 50% Eco-RPET.
- 30% of the PET bottles worldwide become recycled, tendentially increasing
- Almost double-digit growth rates for RPET, tendentially increasing
- Using 1 ton Eco-RPET saves up to 1.5 tons CO₂
- The only difference to PET virgin is the color and of course the price.





Production and Distribution



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