



# ECO FLYER

## PET sustainable benefits comparing to other materials:

- recycling: PET can be recycled endlessly, for PVC and paper downcycling cannot be avoided

**Only PET can be recycled limitless.**

- water footprint: water consumption in PET production process (10l/1kg PET\* and 5l/1kg R-PET\*) is significantly lower comparing to paper production (24l/kg\* for recycled paper and 40l/kg\* for virgin)

**PET is considered as the most sustainable material regarding water footprint.**

- energy consumption: production process needs 66MJ/kg\* for PET and only 40MJ/kg\* for R-PET versus 22,7MJ/kg for printing and writing paper und up to 89MJ/kg for PVC\*

**Considering PET lifecycle\*\* energy consumption of PET foils is similar to paper (for R-PET even lower) and in favor of PET comparing to PVC.**

- CO<sub>2</sub> emission: paper production emits 0,3kg CO<sub>2</sub>/kg versus 0,45kg CO<sub>2</sub>/kg\* in R-PET production and 2,73 kg CO<sub>2</sub>/ kg\* in PET production

**CO<sub>2</sub> emission for R-PET is comparable to paper, but assuming PET lifecycle\*\* given technical data are in favor of PET.**

- ecological payback period: short for PET in comparison to PVC

**Short ecological payback period for PET material.**

An additional advantage of PET is the share of **recycled material** that can reach **up to 80%** in PET-A middle layer.

\* data based on:

<https://www.sciencedirect.com/science/article/pii/S2352550921003122#bib0013>  
<https://recycled-papers.co.uk/green-matters/why-use-recycled-papers/use-less-water>  
estimates of Folienwerk Wölfen linked to professional literature

\*\* Estimation of PET's lifecycle being triple that long as papers are based on the production experience of Clients.