

# visco

# ZERO

## Revolutionizing the world of recycling.

Starlinger viscotec launched a new product line which revolutionizes plastics recycling: viscoZERO, the melt phase decontamination reactor for the production of food grade recycled polyolefin and polystyrene resins, and food grade and iV-increased recycled PET.

The focus of viscoZERO technology is clearly on the three most important requirements for plastic recycling in top-quality: recyclate for direct food contact, maximum flexibility with input materials and high efficiency for cost-effectiveness.

### Zero compromises.

viscoZERO stands for true „re-cycling“ instead of „downcycling“. Especially post-consumer packaging waste made of PP, PS, HIPS or HDPE have experienced a degradation of material properties with existing recycling technologies, therefore these recyclates have so far only been used in low-grade applications. With the new technology, these limitations are a thing of the past. Recycling plants with viscoZERO technology produce recyclates for high-value applications, from PET waste as well

as from polyolefins. This benefits our environment and creates new business opportunities for recyclers and plastics converters.

### Amazingly fast and efficient.

After the recycling extruder, the input material is processed in viscoZERO in liquid form and under vacuum. When recycling PET waste, food-grade rPET pellets are produced in just a few minutes. Both the increase of the intrinsic viscosity (iV) and the decontamination of the material is done incredibly fast. It is a cost-effective way to produce pellets for end products made of high-viscosity PET, such as strapping tapes or fibers.

### Decontaminate high viscosity materials.

With viscoZERO there are virtually no limits. Packaging and industrial waste made of PP, HDPE, PS and HIPS can also be recycled in viscoZERO. In the process, the material is homogenized, cleaned of all contaminants and unpleasant odours are removed. The result of the high cleaning efficiency in the recycling process is odourless, high-quality food-grade recyclates.

## ZERO contamination

### Post-consumer recycled materials safe for direct food contact.

Thanks to efficient decontamination and homogenisation of the material.

## ZERO waste

**Zero waste achieved through 100% recycling rate.** viscoZERO recycles different types of high viscosity input materials.

## ZERO odour

**Efficient removal of high and low volatile odours.** Results in pure and odour-less recyclate for demanding applications and packaging solutions.

## ZERO limits

**Zero limits to grow your business.** Flexibility to process a wide range of input materials into resins of outstanding quality.

viscoZERO –  
processing PP,  
PE, PET & PS!