

# NOVEL TECHNOLOGY AT PETMAN

Your opportunity to test material  
on viscoZERO



## Applications

Starlinger viscotec has performed hundreds of material tests with viscoZERO for customers in the tech-center test lines. Here is a selection of the numerous applications:

### rPP for food and non-food applications

- odor reduction with lasting effect
- suitable for automotive exterior or interior applications
- food and contact sensitive applications

### rHDPE for food and non-food applications

- bottle-to-bottle recycling
- cap-to-cap recycling

### rPS for food applications

- cup-to-cup recycling for containers, trays or bottles
- yoghurt and dairy products

### rPET for food and non-food applications

- increase of intrinsic viscosity (IV)
- spin oil removal
- contact sensitive and food applications (depending on origin of input material)



## viscoZERO PETman line data

- Recycling Extruder:
- recoSTAR dynamic with 145mm Extruder and Power backflush filter 980
- viscoZERO 1500
- Under Water pelletizer
- Crystallizer 40
- Input materials: rigid or flexible PE, PP, PS, PET and specialties

“Our passion is plastics recycling,” states PETman Managing Partner Markus Neudorfer. That is why the Austrian company has been producing food-grade recycled PET and rPET sheet for many years. “And I also see great potential for packaging made from super clean polyolefins and PS recycle,” he names the main reason for their latest investment in a recycling line with viscoZERO technology. It is a dynamic pelletizing line with melt phase decontamination technology and a downstream unit for cleaning and odor reduction of polyolefins like PE, PP and PS. “After evaluating multiple technologies for polyolefins and polystyrene, we decided to go the path with viscoZERO technology for super-cleaning, due to outstanding decontamination efficiency and a lasting odor reduction. Starlinger viscotec demonstrated that the use

of recyclates of PE, PP and PS is possible for contact sensitive packaging in various applications – with percentages far beyond the requirements specified in PPWR,” Markus states.

The business concept of PETman with the new viscoZERO pelletizing line includes the super cleaning and contract pelletizing of customer’s materials, as well as the production of own recyclates for the market.

PETman operates the line under the “Novel technology” applications of Starlinger viscotec; the PP, PE and PS recyclates can be used legally for contact sensitive applications according to the compliance data sheet issued from PETman after processing and laboratory tests. The line setup allows PETman a wide range of applications for rigid and flexible

input materials from PE, PP, PS and PET. It is equipped with additional flakes sorting for color and foreign materials.

PETman is listed and audited as a recycler in accordance with EU 2022/1616, BRCGS Global Standard for packaging as well as RecyClass (EN15343).

PETman is happy to discuss, develop and demonstrate the possibilities of your input material and application.

