

# viscoZERO

Melt phase decontamination reactor to produce recyclate according to food grade standards from PS, PP and HDPE. Increase of intrinsic viscosity of polyester.

## BENEFITS

- Superclean post-consumer PP, PE, PS and PET
- iV increase for PET
- Odour removal
- Spin finish removal



viscotec  
foodgrade without compromise

# viscoZERO

viscoZERO –  
processing PP,  
PE, PET & PS!



## 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

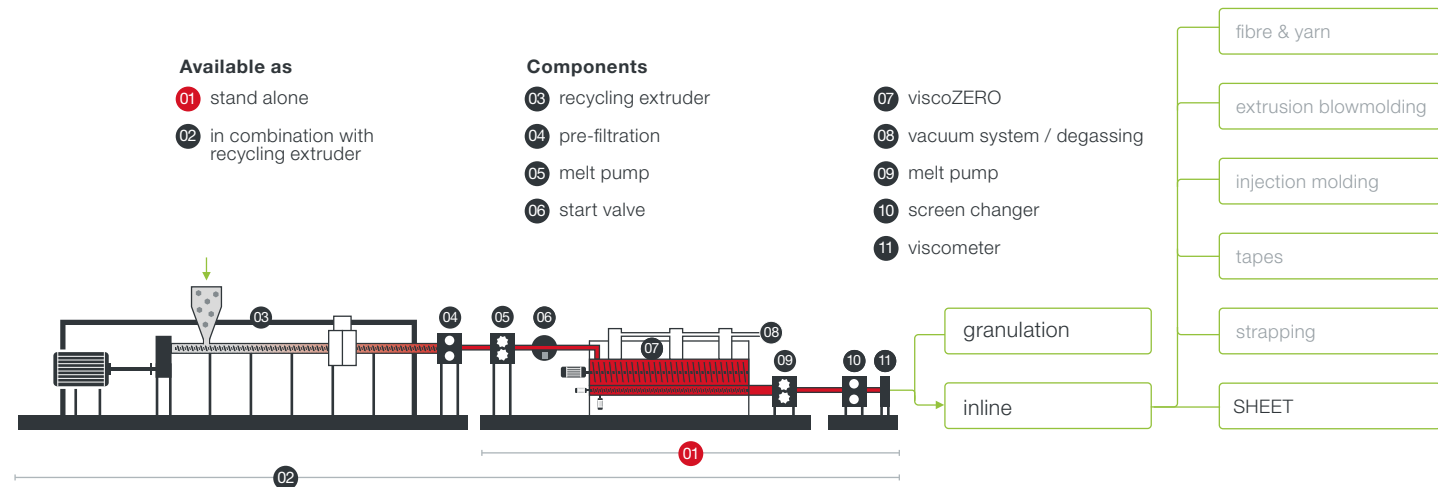
Zero limits to grow your business. Flexibility to process a wide range of input materials into resins of outstanding quality.

### Available as

- 01 stand alone
- 02 in combination with recycling extruder

### Components

- 03 recycling extruder
- 04 pre-filtration
- 05 melt pump
- 06 start valve
- 07 viscoZERO
- 08 vacuum system / degassing
- 09 melt pump
- 10 screen changer
- 11 viscometer



## Specifications

Model		600	1500
Max. output <sup>1,2</sup>	[kg/h]	400-800	800-1600
Residence times from/to <sup>2</sup>	[min]	10-40	15-40
Net volume of reactor	[dm <sup>3</sup> ]	600	1500
Equipment height	[m]	2.2	2.2
Floorspace	[m]	5 x 3	6 x 4
High-vacuum system	[mbar]	≤ 10	
Energy consumption	[kWh/kg]	0.03-0.05	
iV increase PET <sup>3</sup>	[dl/g/min]	0.004-0.007	
Food grade according to		FDA pending	

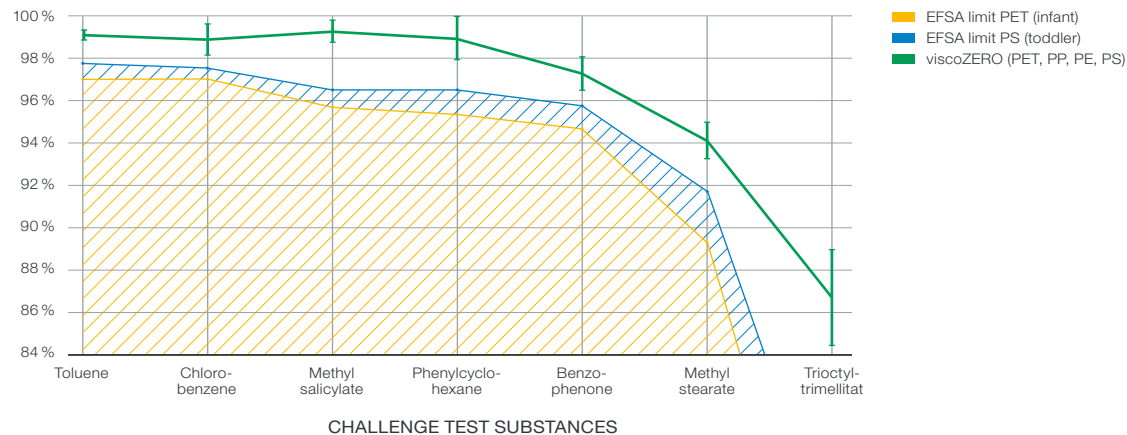
Above table represents general data and average values. We reserve the right of technical modifications.

<sup>1</sup> depending on material (PET, PP, PE, PS) and residence time

<sup>2</sup> recommended residence time 20 minutes

<sup>3</sup> iV increase equals 0.08 - 0.15 dl/g per 20 minutes

## Cleaning efficiencies



## Input

### Post-industrial

Fibres & textile  
Skeleton waste  
Strapping

### Post-consumer

Flakes

## viscoZERO



## Application

### High iV

Fibre  
Strapping

### Odour free & food grade

Granulate  
Sheet

