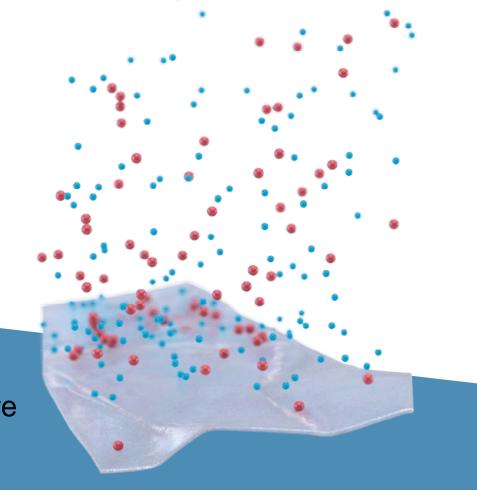


into the food grade market



EREMA®

MPR® removes migration substances and moisture already BEFORE extrusion

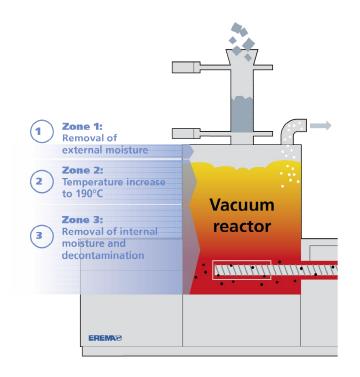
#### EREMA®

### **MPR Vacuum Reactor – Process**

Vacuum reactor with **3 ultra-efficient function zones** to decontaminate and pre-dry the PET material prior extrusion

#### How it works:

• **Zone 1:** responsible for the removal of the outer moisture of the PET flakes.



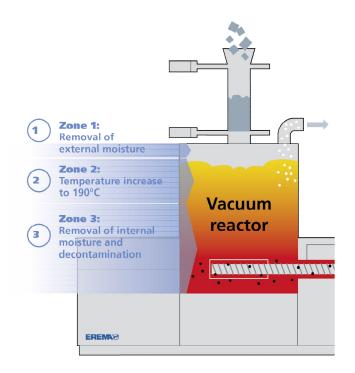
#### EREMA®

#### **Vacuum Reactor – Process**

Vacuum reactor with **3 ultra-efficient function zones** to decontaminate and pre-dry the PET material prior extrusion

#### How it works:

- **Zone 2:** the temperature rises from 20°C to 190°C. The polymer structure opens up and the process for the removal of migration substances and the internal moisture from the flakes begins
- Zone 3: The flake decontamination & removal process unfolds with full effect. With very low residual moisture of under 0,05% the clean, perfectly prepared material leaves the MPR and is ready to use at 3<sup>rd</sup> party extruders.



#### **EREM**®

# MPR® input material

EUCER.

#### MPR<sup>®</sup> output material:

- Crystallised, dry, hot PET Flakes
- Bulk density of the input material increased up to 80 % (~500kg/m<sup>3</sup>)
- Humidity: <50 ppm
- Slight IV increase possible
- AA (Acetaldehyd) 1 ppm and lower
- Influence of oxygen eliminated vacuum treatment ideal for better colour
- No gels in the final product

## MPR®: Dry and clean PET flakes



# MPR<sup>®</sup> - Food Contact Approved Recycling

- Extremely flexible with input material PET bottle flakes, ground amorphous skeleton waste/edge trim and virgin material (also in mixtures) AND mixtures of different Polymers (Multilayers, e.g. PET/PE)
- Highly efficient food contact compliant decontamination
- Influence of oxygen eliminated vacuum treatment ideal for better colour
- Flakes/Dust hot feeding no gels in the final product





## MPR<sup>®</sup> - Food Contact Approved Recycling

- Smart Start principle fully automatic continuous operation, permanent monitoring for direct food contact (FCC) and the storage of all relevant process parameters
- Very low specific energy consumption (MPR:0,07 0,11kWh/kg)



# MPR<sup>®</sup> systems **Technical data**

Technical data MPR®

Туре	Average output capacity in kg/h
	max.
MPR 1300/80	500
MPR 1500/120	900
MPR 1700/120	1,500
MPR 2000/120	2,000



# **Evertis / Selenis**

Portugal, Mexico 2 MPR<sup>®</sup>, 2015

**MPR<sup>®</sup>: current examples** 







# EBREAKE SYSTEMS