

what does CREATOR do?

- Collection of raw materials
- Removal of flame retardants
- Reuse of secondary raw materials

THE PROCESS



INNOVATION

A new, cost-effective approach



Consideration of the whole value chain for various polymers ABS, PC, PA, PS



Characterisation and sorting of large polymer parts containing brominated flame retardancies at kg scale
Removal of Br-FR down to 0,1 wt-% in continuous process at kg scale

MARKET INTEGRATION

CREATOR delivers solutions to various steps of the production chain



Sorting line with LIBS technology (Laser-Induced Breakdown Spectroscopy) for characterisation

Extractive extrusion with super critical CO₂ and NADES ionic liquids for the purification

Re-additivation for the re-use (new flame retardants, processing additives)

Labeling of the material to ensure hazardous flame retardant content < 0,1 wt-%

TECHNOLOGIES

THE CONSORTIUM

RECYCLING



RE-USE



LCA • DISSEMINATION • LEGAL

