



Deliverable

D2.3 Proof of concept: PU waste sorted into a set of specific foam families to be used as input to the chemolysis process and CAPU physical recycling.

Project Information

Grant Agreement n°	814543
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Publishable Summary

Within the PurSmart project a sorting solution for end-of-life (EoL) flexible PU foam has been developed. REDWAVE has successfully adapted its smart sorting technology to sort PU foam by isocyanate type, polyol type and by additive content. As proof of concept, post-consumer mattresses were shredded to create an optimal input for sorting. More than 200 kg, equivalent to almost 20 m³, of EoL foam were sorted in REDWAVE's Innovation Center.

REDWAVE has created a recycling technology that is key for making flexible polyurethane fully circular. With Smart Sorting, a feedstock for Smart Chemolysis and other downstream processes can now be created, paving the way for new recycling routes for post-consumer mattresses and upholstery.

Watch our video on foam sorting: <https://youtu.be/Cp8338-AkM4>