Technologies

Advanced solvent-based technology for the closed-loop recycling of engineering plastics

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Engineering plastics and soft

PVC are often used in products with complex material composition, which makes recycling challenging





based on mechanical recycling offer partial solution only and result in a loss of material properties



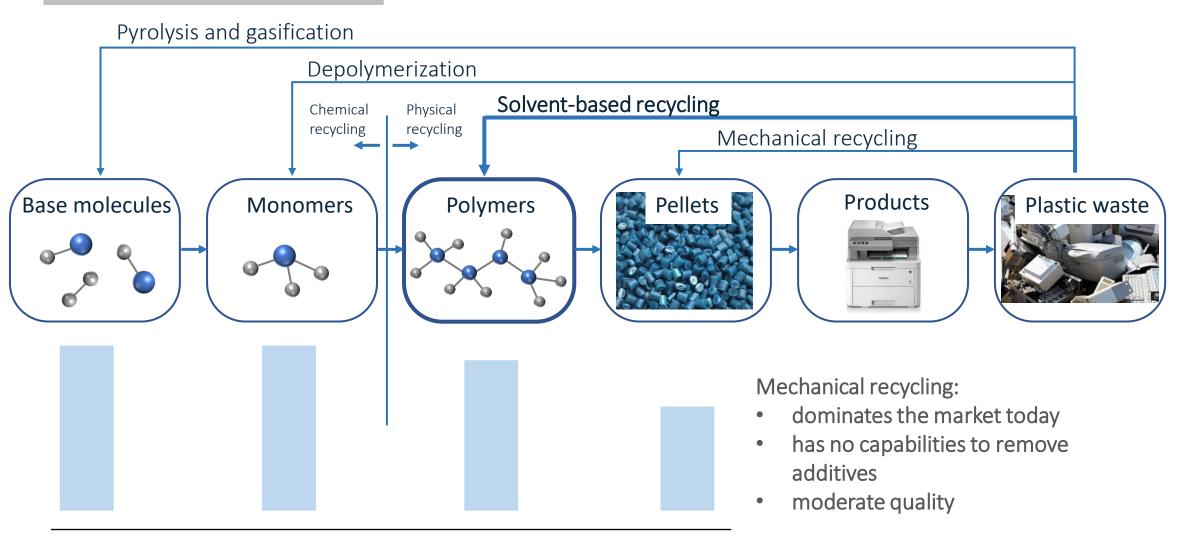
Current recycling methods

The application of recycled plastics in consumer products is lagging behind, mainly due to a shortage of high-quality recycled material



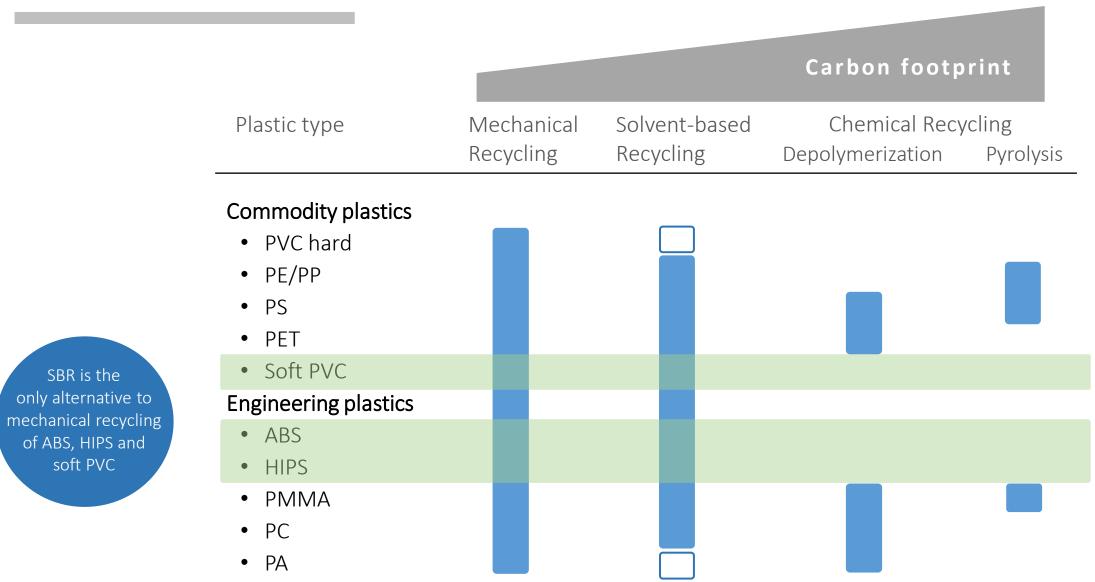


Available recycling approaches for plastics



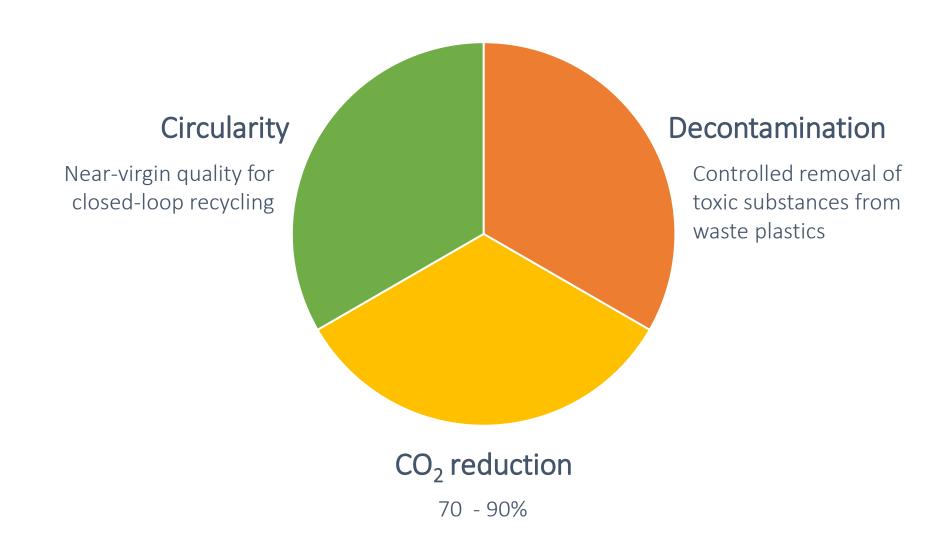


Application field of available methods



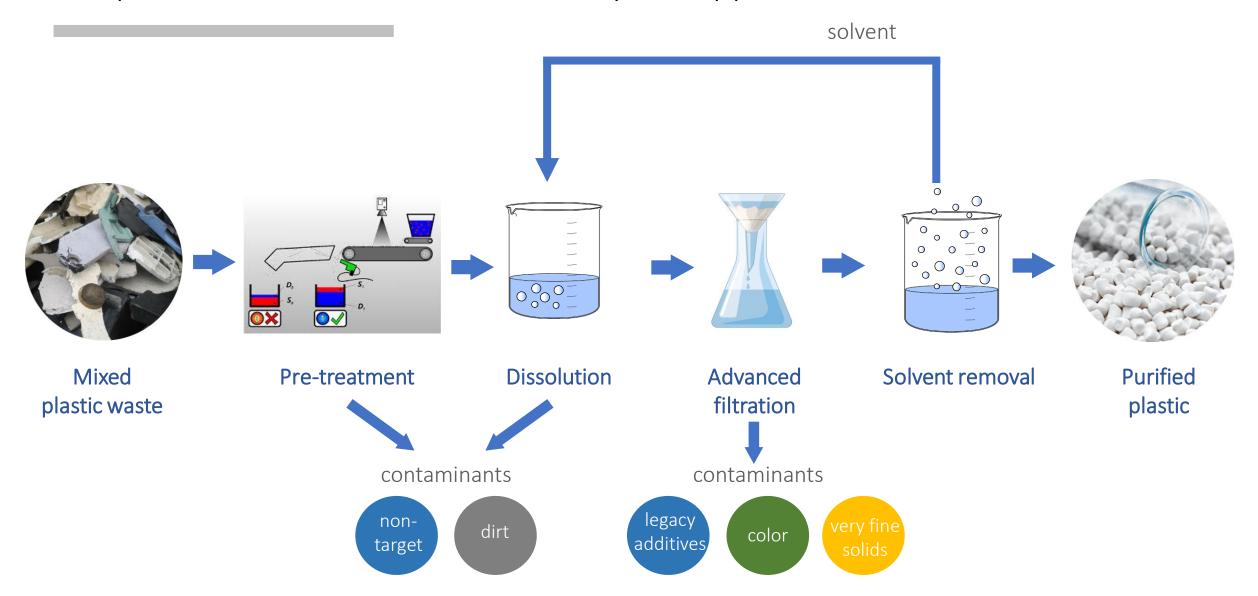


Solvent-based recycling - Triple benefit





Improved contaminant removal in hybrid approach





ReSolved: Building on proven technology

ReSolved pilot plant (2000 – 2015):

- Basic solvent-based modules
- 600 tons/a output capacity
- Extensively tested

Additive removal is now being tested











Progress to date and planning



Bench scale

50 g



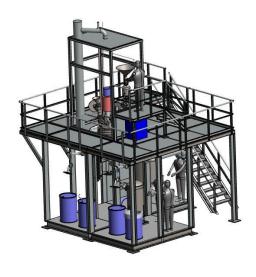
XL-Lab scale

2 kg



Improved pilot plant

500 kg



Demo plant

4.000 tons/a





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Q1 2025



Thank you!