

Textile, Packaging, Food & Beverage brands set sustainability targets to use recycled polyester from 45% to 100%

Global Demand of Recycled Polyester by Application Segment







PACKAGING

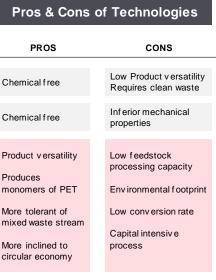


PACKAGING

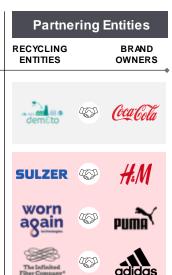
TECHNOLOGY

TEXTILES

Polyester Recycling Technologies INPUT OUTPUT PET flakes Mechanical PET bottle PET bottle White textile fiber Thermal Glycolysis BHET, EG Methanolysis DMT, EG PET bottle, Hydrolysis TPA, EG



Poor Product quality



Chemical recycling of PET is a promising technology due to its high product versality and invaluable monomer feedstock

Low energy

intensive process

Potential areas of research in chemical recycling



Enzymatic

Post-treatment purification



BHETA, Terephthalamide, EG

White textile fiber

separation



processing capacity



polyester quality



sustainability

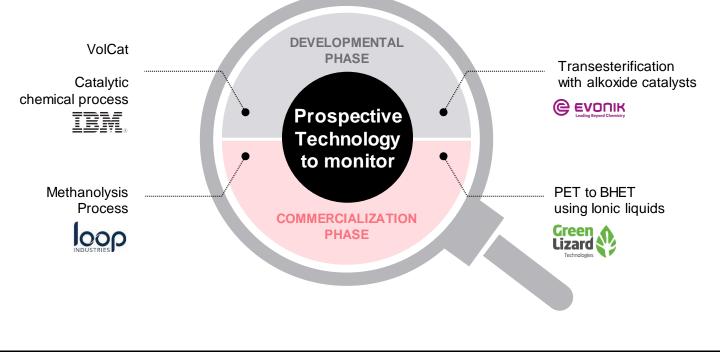


footprints



intensity

Prospective technology to monitor



Conclusion

mixed feedstock, surpassing mechanical recycling in this regard. Additionally, the products derived from chemical recycling are versatile and monomeric. Chemical recycling of textiles holds the potential to yield materials of equal quality and value as products from virgin feedstock. Research in chemical recycling field is progressing rapidly leading to reduced energy and water consumption and close to 99 percent recycling of the chemicals used.

Chemical recycling of polyester is gaining attention due to its efficient handling of

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