

Biodegradable Polyester and Biobased Monomer Technologies

Technip Energies' polybutylene adipate terephthalate (PBAT) and polybutylene succinate (PBS) are biodegradable polyesters according to EN 13432 which solve environmental pollution problems caused by plastic products mostly made of polyethylene, polypropylene and polystyrene. Their hydrolysis sensitive ester bonds lead to decomposition by microorganisms and at the same time, their semi-crystalline structure provides flexible mechanical properties, e.g. for the usage of packaging, mulch films, bags and cutlery. PBAT/PBS swing plants can adapt easily to the market demands and accommodate the arrival of new bio-feedstocks, e.g. bio-succinic offered by Technip Energies as well. This helps to improve the carbon efficiency by the integration of the full value chain for a sustainable monomer and polymer production.