

Speaker name: Fabien RESWEBER

Company: PTTMCC Biochem Company Ltd.

Position: Vice President Sales & Marketing

Title: BioPBS™, Renewable Carbon Based Polyester for Efficient Management of Plastic Packaging End-of-life

Abstract

BioPBS™ (bio-based polybutylene succinate) is revolutionary in its two-fold bio properties. It is both bio-based and biodegradable plastic, using advanced technology from Mitsubishi Chemical Corporation, which derived partly from renewable material resources, which are using CO₂ from the air and could dramatically reduce carbon footprint. BioPBS™ is naturally biodegradable at ambient temperature at yearly scale into biomass, carbon dioxide and water to use for plant growing repeatedly, so it can easily be composted. BioPBS™ is sustainable alternatives to standard plastics in single-used plastic packaging such as papercups for coffee where the functional property of biodegradability and compostability is an advantage, while keeping good ability with end-of-life recycling (repulping) operation. BioPBS™ has an excellent heat sealability, heat resistance up 100 °C, good adhesion with cellulose and natural fibers. Its similar processability to LDPE makes BioPBS™ a drop-in solution for papercups.

The recent developments and progresses are in good stage to offer new certified Home Compostable packaging solutions, based on BioPBS™ in 2019, starting with certified home compostable barrier packaging solutions, but also home compostable and recyclable papercups (New Gen Cup).

PTTMCC will introduce BioPBS™ benefits, which can turn to be valuable items through this organic recycling and repulpability functionality, and open-up new possibilities BioPBS™ in fiber application.