

One step ahead with bio-based PBS: Enhancing performance of biodegradable single-use items.

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Abstract: PTTMCC is a strategic joint venture between PTT Global Chemical Public Company Limited (PTTGC) and Mitsubishi Chemical Corporation (MCC) with the intention to focusing solely on the bio-chemical industry and creating products of benefit to mankind and to build a greener world. Consequently, PTTMCC is determined to produce bio-chemical products that will initiate changes for a better future. We have launched our first project with the Polybutylene Succinate (PBS) Plant in Thailand, which is also the first biggest bio-based PBS plant in the world.

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. Derived from natural resources, such as sugarcane, cassava and corn, BioPBS is naturally compostable without composting facility into biomass, carbon dioxide and water to be used for plant growing repeatedly.

BioPBS is the only PBS approved by FDA with FCN 1817, 1818, and is also EU10/2011 certified, making its use easy for any global brand. Its excellent heat sealability, heat resistance up to 100°C, good adhesion with cellulose and natural fillers, and similar processability to LDPE allows a multipurpose use in food packaging applications.

BioPBS improves the quality of your product while causing no harm to the environment. BioPBS is the long awaited ideal ma-

terial for paper coating, barrier packaging, coffee capsules, fiber related, and injection molding applications, etc.

MCPP on behalf of PTTMCC will introduce and focus on Bi-oPBS benefits at the angle of how it could enhance PLA processability, by increasing heat resistance, impact strength and reduce cycle time.

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