

可降解塑料技术与市场论坛 2019

Degradable Plastic Technology and Market Forum

4. 24-25

昆明

Kunming Yunnan



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Organizer



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会议背景

可降解塑料在一定条件下可以在较短时间内被分解成二氧化碳和水，是应对“白色污染”和“海洋塑料污染”的有效方法。可降解塑料既可以用生物原料生产，也可以来自于石化或煤化工原料。世界各国对塑料袋和一次性塑料制品的使用规定和限制的不断增长，推动了可降解塑料的需求增长。联合国环境规划署(UNEP)调查结果显示，已有至少67个国家及地区对一次性塑料袋采取限制措施。

可降解塑料主要包括聚乳酸(PLA)、淀粉类(PSM)、二元酸二元醇共聚酯(PBS/PBSA/PBAT)、聚羟基脂肪酸酯(PHA)、聚己内酯(PCL)、聚乙醇酸(PGA)、聚乙烯醇(PVA)和CO₂共聚物等八大类，其中PLA、PSM、PBS和PHA现阶段产能合计占可降解塑料行业总产能约90%。近年来中国企业在可降解塑料生产的核心技术上取得突破，产业发展迅速，已经可以生产上述所有八大类可降解塑料品种。

塑料包装及一次性餐具市场体量巨大，是可降解塑料最大的应用领域；全生物降解农用地膜已经在新疆、云南等地成功开展示范应用，验证了可降解塑料替代普通塑料应用于农用生产的可行性，中国近3亿亩的农膜覆盖面积也为可降解塑料提供了巨大的市场。

2017年11月，国家邮政总局、国家发改委、科技部等十部门联合发布《关于协同推进快递业绿色包装工作的指导意见》，提出到2020年，可降解的绿色包装材料应用比例将提高到50%。2018年，中国快递业务总量达505亿件，且仍保持较快增速，预计到2020年有望突破700亿件。快递包装的绿色转化为可降解塑料行业带来了新的机遇。

2019可降解塑料技术与市场论坛将于4月24-25日在云南昆明召开。会议将探讨可降解塑料政策发展趋势与市场机遇，八大可降解塑料—聚乳酸(PLA)、淀粉类(PSM)、聚酯类(PBS/PBAT/PBSA)、聚羟基脂肪酸酯(PHA)、聚己内酯(PCL)、聚乙醇酸(PGA)、CO₂共聚物和聚乙烯醇(PVA)—生产技术与成本降低展望，可降解塑料原料多元化与下游应用领域的拓展，可降解塑料完全生物降解条件与机理研究等。

日程安排

2019年4月23日 周三

16:00-21:00 会议报到注册

2019年4月24日 周四

08:00-09:00 会议签到

09:00-12:00 演讲报告

12:00-14:00 自助午餐与交流

14:00-18:00 演讲报告

18:00-20:00 招待晚宴

2019年4月25日 周五

08:30-18:00 商务考察

会议主题

1. 可降解塑料政策发展趋势与市场机遇
2. 可降解塑料生产技术与成本降低展望
3. 聚乳酸(PLA)生物材料开拓高价值创新应用
4. 丙交酯合成的关键技术及产业化
5. CO₂制可降解塑料技术与工业化示范
6. 生物降解农用地膜生产技术与应用经验
7. 低成本PHA生物可降解材料生产技术
8. 聚乙醇酸(PGA)产业化进程与应用前景
9. 生物降解二元酸二元醇共聚酯(PBS/PBSA/PBAT)合成及应用
10. 聚乙烯醇(PVA)、聚己内酯(PCL)生产技术与规模化应用
11. 可降解塑料完全生物降解条件与机理研究
12. 适用于海水降解环境的可降解塑料技术研发



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Background

Degradable plastics can be decomposed into CO₂ and water in a short period of time under certain conditions, which is an effective method for dealing with "White Pollution" and "Marine Plastic Pollution". Degradable plastics can be produced either from biological materials or from petrochemical or coal chemical materials. The increasing regulations and restrictions on the use of plastic bags and disposable plastic products in countries around the world have driven the growth in demand for degradable plastics. According to the United Nations Environment Programme (UNEP) survey, at least 67 countries and regions have imposed restrictions on disposable plastic bags.

Degradable plastics mainly based on PLA, PSM, Dibasic acid glycol copolyester (PBS/PBSA/PBAT), PHA, PCL, PGA, PVA and CO₂ copolymers, of which PLA, PSM, PBS and PHA currently account for about 90% of the total capacity of the degradable plastics industry. In recent years, Chinese companies have made breakthroughs in the core technologies of degradable plastics production, and the industry has developed rapidly. It has been able to produce all of the above eight types of degradable plastics.

The market of plastic packaging and disposable tableware is huge, and it is the largest application field for degradable plastics; The fully biodegradable agricultural mulch film has been successfully applied in Xinjiang, Yunnan and other places to verify the feasibility of using biodegradable plastics instead of ordinary plastics for agricultural production, China's nearly 300 million mu of agricultural film coverage also provides a huge market for degradable plastics.

In November 2017, the State Administration of Posts, the National Development and Reform Commission, the Ministry of Science and Technology jointly issued the "Guiding Opinions on Collaboratively Promoting Green Packaging in the Express Delivery Industry",

proposing that by 2020, the proportion of degradable green packaging materials will be increased to 50%. In 2018, China's express delivery business totaled 50.5 billion pieces, and it still maintains a fast growth rate. It is expected to exceed 70 billion pieces by 2020. The green conversion of express packaging has brought new opportunities to the degradable plastics industry.

Degradable Plastic Technology and Market Forum 2019 will be held on April 24-25 in Kunming, Yunnan, China. The upcoming conference will discuss degradable plastics policy development trends and market opportunities, production technology and cost reduction of eight major degradable plastics - PLA, PSM, Dibasic acid glycol copolyester (PBS/PBSA/PBAT), PHA, PCL, PGA, PVA and CO₂ copolymers, diversification of degradable plastic raw materials and expansion of downstream applications, degradation conditions and mechanism of degradable plastics, etc.

Preliminary Agenda

Apr.23, 2019	Wednesday
16:00~21:00	Pre- conference Registration
Apr.24, 2019	Thursday
08:30~12:30	Speech
12:30~14:00	Networking Lunch
14:00~18:30	Speech
18:30~20:00	Banquet
Apr.25, 2019	Friday
08:30~18:00	Business Travel

Topics

1. Degradable plastics policy development trends and market opportunities
2. Production technology and cost reduction of degradable plastics
3. High-value innovative applications of PLA materials
4. Key technology and industrialization of lactide synthesis
5. CO₂ to degradable plastic technology and industrial demonstration
6. Degradable agricultural mulch film production technology and application experience
7. Low-cost PHA biodegradable material production technology
8. PGA industrialization process and application prospects
9. Synthesis technology of dibasic acid glycol copolyester and its application
10. Production technology and scale application of PVA and PCL
11. Degradation conditions and mechanism of degradable plastics
12. Development and application of seawater degradable materials