

叶新建

报告人简介：

于 1992 年进入降解塑料行业领域，一直致力于原料的改性及制品的产业化。曾多次担任项目负责人并取得奖项。并参与制定和审查数十项国家，行业及企业标准。

自 1998 年起开始关注聚乳酸的各项发展动态，2002 年开始聚乳酸的改性研发和工业化生产的筹备，自 2006 年起陆续有 m-PLA 改性树脂、C-PLA 热成型制品、C-PLA 注塑制品、PLA 淋膜纸制品、PLA 吸管及 PLA 注、拉、吹瓶、PLA 发泡餐具及 PLA 纺织等产品形成工业化生产并在国际市场销售。

现与恒鑫集团筹建聚乳酸加工应用研究所。



Xinjian Ye

Profile of the Author:

Since 1992, Mr. Ye entered into the field of degradable plastics and has been committed to the modification of raw materials and the industrialization of products. He had served as the project leader for many project and won a lot of awards and participate draw up and development many standards like national standard, industry standard and corporate standards etc.

Since 1998, Mr. Ye began focus on the development of poly lactic acid. In 2002, he starts preparations for modified R&D and industrial production of poly lactic acid. Since 2006, he has successively not only produced and form industrial production but also sold in the international market like m-PLA modified resin and C-PLA thermoformed products, C-PLA injection molding products, PLA coated paper products, PLA straws and PLA injection, drawing and blowing bottle, PLA foam tableware and PLA textile products

Now Mr. Ye is building a poly lactic acid processing application research institute with Hengxin Group.

改性聚乳酸产品的工业化进程

摘要: 1、聚乳酸熔体在线改性

分子量及性能的下降极小，可在熔体挤出的同时，通过改变添加的助剂及其它生物降解材料的比例得到不同性能的改性聚乳酸树脂；

2、聚乳酸发泡产品

利用支化和交联方法增加聚乳酸的熔体强度，物理发泡剂与高强度聚乳酸熔体在挤出机中经冷却均化后在模口处形成细密的发泡片材，可用于减震抗冲包装及发泡餐具。

3、聚乳酸纤维产品

通过强化、阻燃及抗老化方法得到改性聚乳酸，然后加工制得的长、短纤可用于服装和絮状填充制品，有透水汽、与皮肤酸性一致的亲和力、抑菌抑螨及保温性佳等特点。

Industrialization of Modified Polylactic Acid Products

Abstract: 1. Online modified of melting polylactic acid

The molecular weight and performance degradation is minimal, It can be modified polylactic acid by changed ratio of additives and the other biodegradable materials while melted, and make it have different functions.

2. Polylactic acid foaming products

Increasing the melt strength of polylactic acid by branching and crosslinking methods, The physical foaming agent and the high-strength polylactic acid melt are cooled and homogenization in the extruder to form the uniform and fine of foamed sheet at the die.

The product is used for shock absorption/impact packaging and foaming tableware.

3. Polylactic acid fiber products

The modified polylactic acid is obtained by strengthening, flame retardant and anti-aging methods, and then the processed long and short fibers can be used for

clothing and floc filling products.

The advantage of vapor permeability, affinity of skin pH , antibacterial and anti mite,good thermal insulation performance, etc.