

## BPO露天土壤自然环境生物降解聚烯烃系列 Biodegradable polyolefin series in outdoor soil and natural environment

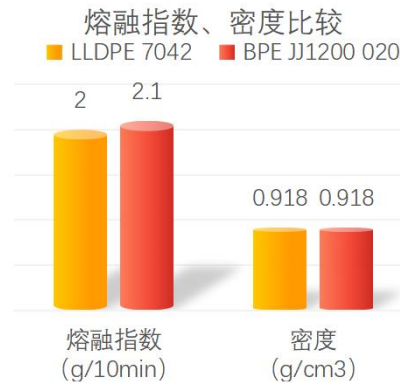
### 产品描述/Description:

BPE是生物降解聚乙烯的简称, 是恒昌泰BPO(生物降解聚烯烃)系列的一个分类, 具有可降解、无毒害、可回收、高强度、保质期长的特点。采用BPE制造的产品最大优点是即使泄漏到自然环境中也可以快速降解, 特别是应用在地膜、塑料袋、缠绕膜、收缩膜、食品包装、日化化妆品等各类包装物上, 可有效缓解塑料污染。

Biodegradable polyethylene, abbreviated as BPE, is a classification of the Hengchangtai BPO (Biodegradable Polyolefins) series, characterized by biodegradability, non toxicity, recyclability, high strength, and long shelf life. The biggest advantage of products manufactured using BPE is that they can quickly degrade even if leaked into the natural environment, especially when applied to various packaging materials such as plastic films, plastic bags, wrapping films, shrink films, food packaging, daily chemical cosmetics, etc., which can effectively alleviate plastic pollution.

### 特点/characteristic

- 露天土壤环境全生物降解
- 长达24-36个月的货架期
- 可回收利用
- 耐低温-70℃
- 高强度、高韧性
- Biodegradation in open-air soil environment
- Up to 24-36 months shelf life
- Recyclable
- Low temperature resistance -70 °C
- High strength and toughness



### 性能比较/performance comparison

项目	BPP	PP	Project	BPP	PP
全生物降解	是	否	Biodegradable	yes	no
保质期	室内2-3年	长期	Expiry date	Indoor 2-3 years	long-term
颜色	微偏黄	本色/透明	Color	Slightly yellowish	Natural/Transparent
透明度	相同		Transparency	Same	
光泽	相同		Gloss	Same	
物理性能	相同		Physical property	Same	
高/低温性能	相同		High/low temperature	Same	
设备	相同		Equipment	Same	
工艺	相同		Workmanship	Same	
效率	相同		Efficiency	Same	

**符合标准/Compliant with standards**

- 生物降解:  
国际: BSI PAS 9017,  
中国: GB/T 41010之GB/T 22047
- 食品接触:  
美国:FDA21 CFR 177.1520  
欧盟:(EU) No.10/2011及(EU) 2020/1245
- 环保:  
Rohs、SVHC
- Biodegradation:  
international: BSI PAS 9017,  
China : GB/T 41010之GB/T 22047
- Food contact :  
USA :FDA21 CFR 177.1520  
EU :(EU) No.10/2011及(EU) 2020/1245
- Environmental protection :  
Rohs、SVHC

**物性表/datasheet:**

性能/Properties	试验方法/method	单位/unit	JJ1200-003	JJ1200-45D	JJ1200-50D	JJ1200-070	JJ1200-020KF
熔融指数 Melt Index(190°C/2.16kg)	ISO 1133 -1	g/10min	0.3	0.5	0.5	7	2
密度 Density	ISO 1183 -2	g/cm3	0.92	0.925	0.93	0.918	0.925
维卡软化温度 (A50) Vicat (A50)	ISO 306	°C	/	/	/	/	94
拉伸强度 Tensile Strength	ISO 527 -2	MPa	13	13	14	11	11
断裂延伸率 Elongation	ISO 527 -2	%	90	130	500	/	300
级别 Grade			挤出/吹塑级			涂覆淋膜级	发泡级
特性 Characteristic			无开口剂、热封性好、透明好	良好的手感、热封性好、硬度45D	良好的手感、热封性好、硬度50D	良好的加工性	高发泡倍率、高熔体强度

**典型应用:**

- 薄膜: 地膜、缠绕膜、收缩膜、保鲜膜、拉伸膜、复合膜、食品包装膜、印刷膜等
- 包装袋: 快递袋、购物袋、奶茶袋、自封袋、快递袋、食品包装袋、服装袋、礼品袋、电器包装袋等
- 日化包装: 化妆品软管、日化包装瓶等
- 淋膜/涂覆: 纸塑复合制品、无纺布涂覆制品等
- Film: plastic film, wrapping film, shrink film, preservation film, stretching film, composite film, food packaging film, printing film, etc
- Packaging bags: express delivery bags, shopping bags, milk tea bags, self sealing bags, express delivery bags, food packaging bags, clothing bags, gift bags, electrical packaging bags, etc
- Daily chemical packaging: cosmetic hoses, daily chemical packaging bottles, etc
- Coating/coating: paper plastic composite products, non-woven fabric coated products, etc



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**降解, 让生活更美好! Biodegradation, making life better!**