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使用生物降解塑料
对抗白色污染

*Using biodegradable
plastics to fight against white pollution*



爱柯沃得、爱柯维尔标由两片叶子相互环绕，共融一体，生生不息，诠释了金晖兆隆的核心价值观：通过对生物降解材料的不断求索，为顾客提供生态环保产品的同时，创造一个和谐共荣、可持续发展的健康世界。

The logo of Ecoworld® and Ecowill® is composed of two leaves around each other which ultimately turn into one. It interprets core values of JinHui ZhaoLong which is not only to provide customers with biodegradable plastics but also to provide human with a harmony, common prosperity and sustainable development of a healthy world.



标志的颜色从翠绿到碧绿，通过绿意盎然的颜色变化传达了品牌活力与希望。



The color of logo changes from light to dark green. This change conveys the brand's vitality and hope through lushness.

我们以注重细节，追求卓越的金晖兆隆理念，为客户提供精益求精的生物降解塑料产品。

We follow JinHui ZhaoLong's concept of excellence by paying attention to details of products and services. We provide high quality biodegradable plastic products to customers.



Company Introduction 公司介绍

金晖兆隆高新科技股份有限公司成立于 2012 年，目前形成年产 80,000 吨生物降解塑料原料 PBAT，10,000 吨生物降解塑料改性料。金晖兆隆生产的生物降解塑料产品已获得国内外行业权威认证，旗下的爱柯沃得® 生物降解塑料原料和爱柯维尔® 生物降解塑料改性料已经成为行业内的国际知名品牌，产品远销五大洲，并设有多家海外直营网点。在生物降解终端制品市场与华润万家、沃尔玛、正大集团、阿里巴巴等知名企业展开合作。

JinHui ZhaoLong High Technology Co.Ltd was established in 2012. Currently, the annual capacity of biodegradable polymer PBAT is 80,000 tons while compounding line is 10,000 tons. JinHui ZhaoLong's biodegradable polymer and compounds have obtained the most recognized certifications both in China and internationally. Ecoworld® biodegradable polymer and Ecowill® biodegradable polymer compounds are JinHui ZhaoLong's two international well known brands in the industry. JinHui ZhaoLong has set up many overseas sales channels and is selling its products over more than five continents. In end use markets, it cooperates with well known companies such as China Resources Vanguard, Walmart, CP Group and Alibaba.



Ecoworld[®]

is both biodegradable and compostable

爱柯沃得[®]是一种可堆肥的生物降解塑料

爱柯沃得[®]生物降解塑料在堆肥条件下，可以在180天内被微生物分解成二氧化碳和水，在堆肥条件下可以产生有机肥料，降解过程不会产生有毒气体，是目前生物降解塑料膜材的主要原材料，可以生物降解和可堆肥，能够有效的对抗白色污染。 Ecoworld[®] biodegradable polymer can be broken down by microorganism into CO₂ and H₂O within 180 days without creating any poisonous gas. High quality organic fertilizers can be generated under composting condition. This product is the main raw material for biodegradable plastic films with its biodegradable and compostable properties. It can effectively fight against white pollution.

Technical Properties

性能指标

爱柯沃得[®]采用一步聚合法生产，产品完全符合美国及欧洲食品接触安全标准，同时完全符合欧盟EN13432及美国ASTM6400D生物降解塑料标准；在密封包装条件下的保质期是12个月。 Ecoworld[®] uses one step polymerization technology during production. It corresponds with American and European food contact safety standards, EN13432 and ASTM6400D standards. Its shelf life is 12 months under sealed condition.

爱柯沃得[®]性能指标 / Ecoworld[®] Technical Properties

性能 Property	单位 Unit	测试标准 Test Method	吹塑级 Blow Molding Grade
密度 Density	g/cm ³	ISO1183	1.22-1.25
熔程 Melting Range	°C	ISO3146	95-135
维卡软化点 Vicat Softening Point	°C	ISO306	≥90
熔指 (190°C,2.16Kg) Melting Flow Rate	g/10min	ISO1133	≤5
水份 Moisture	%	ISO15512	≤0.1
灰分(质量分数) Ash Content (Weight)	%	ISO3451	≤0.1
拉伸强度 Tensile Strength	Mpa	ISO527-2	≥18
断裂伸长率 Elongation at Break	%	ISO527-2	≥500



Ecowill[®]
爱 | 柯 | 维 | 尔

是金晖兆隆公司研发生产的**Ecoworld[®]改性料系列产品**
Ecowill[®] is a group of Ecoworld[®] compounding materials which are developed and manufactured by JinHui ZhaoLong.

相较于传统塑料制品，爱柯维尔[®]生物降解改性材料生产的产品兼具生物降解、可堆肥、可印制、可熔解的生化及物理特征优势。爱柯维尔[®]已经被广泛应用于工业及农业生产，终极产品包括购物袋、垃圾袋、食物包装袋及地膜等。爱柯维尔[®]目前有两个主要系列产品，分别是爱柯维尔[®]FS-0330, 爱柯维尔[®]FM-0625。

爱柯维尔[®]FS-0330是由爱柯沃得[®]与淀粉改性而成。爱柯维尔[®]FM-0625是由爱柯沃得[®]与聚乳酸及淀粉改性而成。这一改性过程可以在不影响之后正常加工工艺的同时提高产品的延展性和断裂伸长率，可以在维持产品的生物降解及可堆肥特性的同时有效地降低材料成本。

In contrast to conventional plastics, Ecowill[®] allows its final plastic products to possess both biological (biodegradable and compostable) and physical (printable and weldable) advantages at the same time. Ecowill[®] has been widely applied to industrial and agricultural sectors, such as shopping bags, garbage bags, food packages and mulch films etc. Currently there are two main series of products, which are Ecowill[®] FS-0330 and Ecowill[®] FM-0625 respectively.

Ecowill[®] FS-0330 is Ecoworld[®] and starch compound. Ecowill[®] FM-0625 is Ecoworld[®] starch and PLA compound. The compounds help to increase the tear strength and elongation of finished products greatly while not affecting the later processing. In addition, the compounds can reduce the product cost while still remain the biodegradable and compostable properties.

爱柯维尔[®] FS-0330性能指标 / Ecowill[®] FS-0330 Technical Properties

性能 Property	单位 Unit	测试依据 (方法) Test Standard	数值 Value
熔融指数 (190°C,2.16kg) Melt Flow Rate	g/10min	ISO1133	≤5
密度 Density	g/cm ³	ISO1183	1.26-1.3
熔程 Melting Range	°C	ISO3104	95-135
拉伸强度 Tensile Strength	mpa	ISO527-2	≥18
断裂伸长率 Elongation at Break	%	ISO527-2	≥300

爱柯维尔[®] FM-0625性能指标 / Ecowill[®] FM-0625 Technical Properties

性能 Property	单位 Unit	测试依据 Test Standard	数值 Value
熔融指数 (190°C,2.16kg) Melt Flow Rate	g/10min	ISO1133	≤5
密度 Density	g/cm ³	ISO1183	1.26-1.3
熔程 Melting Range	°C	ISO3104	95-155
拉伸强度 Tensile Strength	mpa	ISO527-2	≥20
断裂伸长率 Elongation at Break	%	ISO527-2	≥300

Application Fields 应用领域



END USERS 终端用户



PRODUCT CASE 产品案例



华润万家 CR Vanguard

华润万家是中央直属的国有控股企业集团、世界500强企业——华润集团旗下优秀零售连锁企业集团。旗下拥有华润万家、苏果、万家MART、Olè、blt、万家LIFE、乐购express、V>nGO等多个著名品牌。

China Resources Vanguard Co.Ltd, a state holding enterprise directly under the central government and a Fortune Global 500 company, is an excellent retail chain enterprise group under China Resources Group. Its subsidiaries include many famous brands such as China Resources Vanguard, Suguo, Vanguard MART, Olè, blt, Vanguard LIFE, Tesco express and V>nGO.



Walmart Sam's Club 沃尔玛山姆会员商店

山姆会员商店是世界 500 强企业沃尔玛旗下的高端会员制商超。

Sam's Club is a high end membership based supermarket owned by Walmart, a Fortune Global 500 company.



福来食集 Fulaishiji



福来食集是正大集团推出的新业态商超。正大集团是世界上最大的华人跨国公司之一，正大集团在中国投资额近 60 亿美元，设立企业 213 家，是中国平安的最大股东，日本伊藤忠的第一大股东，中信集团的第二大股东。

Fulaishiji is the new types of supermarket launched by CP group. CP Group is one of the largest multinational companies created by Chinese in the world. CP Group has invested nearly US\$6 billion and established 213 companies in China. It is the largest shareholder of Ping An Insurance Company of China, Ltd, the largest shareholder of ITOCHU of Japan, and the second largest shareholder of CITIC Group.

Ito Yokado 伊藤洋华堂

伊藤洋华堂是世界著名便利店7-Eleven的母公司，是日本最大，以及世界第五大的零售企业。在中国主要分为大型连锁超市、生鲜超市、便利店三种主要业态发展模式。

Ito Yokado is the parent company of the world famous convenience store 7-Eleven, the largest retail company in Japan while the fifth largest in the world. In China, it is mainly divided into three main business development models: large chain supermarkets, fresh supermarkets and convenience stores.



FULLY BIODEGRADABLE AND COMPOSTABLE MULCH FILM

全生物可降解可堆肥地膜



可根据使用地区的气温、降水、湿度等自然条件及作物的目标覆盖期限，按照用户的要求量身定制配方，控制覆盖时间，满足覆盖时间后自动降解。

The formula can be customized according to customer's requirements and the coverage time can be controlled to automatically degrade according to the natural conditions such as temperature, rainfall, humidity and targeted coverage time of crop in a certain area.

可降解地膜 ≠ 全生物降解地膜

可降解地膜最终只能将塑料袋变成细小的塑料碎片，不仅不利于塑料的回收利用和清理，碎片化的塑料进入到环境中将产生更多污染问题。



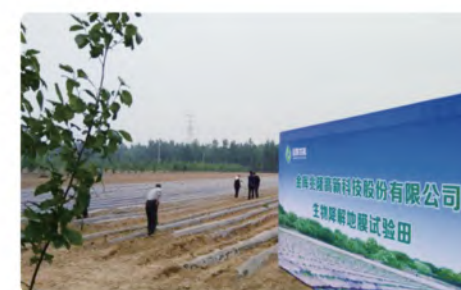
可降解地膜 Degradable plastic film



fully biodegradable plastic film 全生物降解地膜

Degradable plastic film ≠ fully biodegradable plastic film

Degradable plastic film can only break plastic bags into small plastic fragments, which is not only go against recycling and cleaning of plastic, but also will cause more pollution problems when the fragmented plastic enters the environment.



金晖兆隆研发的高强度、高保温、高保墒的爱柯维尔®系列生物降解地膜已在新疆昌吉，山西吕梁、朔州、晋中等多地试种植玉米、谷子、高粱、辣椒、红薯等作物，累计种植面积近4万亩，其增产效果与传统地膜无差，并且无需清理回收，在第二年春耕之前可以全部被微生物分解为二氧化碳和水。

Ecowill® biodegradable mulch film developed by Jinhui Zhaolong with high strength, high heat insulation, high moisture retention properties have been tested for corn, millet, sorghum, pepper, sweet potato and some other crops in Changji of Xinjiang province and Luliang, Shuozhou, Jinzhong of Shanxi province. With total experimental area of nearly 40,000 mu, its yield increasing effect is the same as that of traditional mulch film and it does not need to be cleaned up or recycled. It can be completely broken down into CO₂ and H₂O by microorganisms before spring ploughing in the next year.

CERTIFICATES 产品认证



产品取得了中国环境标志产品十环认证、可降解塑料制品标识、德国 DINCERTCO 工业及家庭堆肥认证、美国 BPI 工业堆肥认证、比利时 VINCOTTE 工业堆肥及家庭堆肥认证，完全符合欧盟 EN13432 标准，并通过了欧盟及美国 FDA 食品接触安全测试。

Products have obtained China environmental labeling products certification, China degradable plastic identification, German DINCERTCO industrial compost and home compost certification, American BPI industrial compost certification and Belgian VINCOTTE industrial compost and home compost certification. At the same time, products have passed American FDA food contact safety test and European EN13432 standard.

Vision of Enterprise 企业发展愿景



致力绿色产业发展
呵护自然造福人类
Committing to the Development in Green Industry
Caring for Nature & Benefiting Mankind

金晖兆隆将把绿色创新视为企业发展的原动力，继续推进世界生物降解科学的发展与应用，按照“合作、协同、分享”的理念，成为全球生物降解塑料产业领跑者。

Regarding the green innovation as the driving force of enterprise development, JinHui ZhaoLong will continue promoting the developments and applications in the biodegradable plastic worldwide. JinHui ZhaoLong's vision is **"Becoming Global Leading Enterprise in the Biodegradable Plastic Industry"**. We believe in Cooperation, Coordination and Sharing.

金晖兆隆将继续以“致力绿色产业发展 呵护自然造福人类”为使命，为全球环保事业做出自己最大的贡献，让子孙后代生活在更加绿色的世界里。

"Committing to the Development in Green Industry, Caring for Nature & Benefitting Mankind" is the mission of JinHui ZhaoLong. We will continue contributing to global environmental protection and creating a greener world for future generations.

100% 生物降解 & 可堆肥
100% Biodegradable & Compostable

