

Innovative Materials Renewed Responsibility **Sustainable Future**



EML: ruiankeji@ruiangeo.com

TEL: +86-400-0130200

Subsidiaries of Ruian Group

Shandong Ruian New Materials Technology Co., Ltd.

Address: South of Jinling Road, West of Jinsha Road, Economic Development Zone, Jinxiang County, Jining

Shanghai Xinyuxuan Agricultural Technology Co., Ltd.
Address: No.58 Baozhen South Road, Baozhen Town, Chongming District, Shanghai (Shanghai Baozhen Economic Development Zone)

Fengong Smart Agriculture (Huizhou) Co., Ltd.
Address: No. 36 North Chenjiang Avenue, Chenjiang Street, Zhongkai High-Tech Zone, Huizhou(Production Workshop 1)

Youxiangfa (Shenzhen) Agricultural Technology Co., Ltd. Address: 22F, Li-Ning Tower, Houhai Street, Nanshan District, Shenzhen

Youxiangfa (Wuchang) Agricultural Co., Ltd.

Address: Retail Unit at Xingfu Hotel (below), Wuchang City, Heilongjiang Province (Location: "Apo Shiyu" restaurant storefront)



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At Ruian Group, we believe that even the tiniest decision matters in stewarding our shared planet.

FOR THE FUTURE 守 护 明 天 和 我 们



PART 01 GROUP PROFILE



GROUP PROFILE

A comprehensive service provider specializing in technological innovation for new materials

Ruian Group is a global-operated new materials service provider driven by technological innovation, deeply integrated into a dual-circulation development paradigm (domestic and international economic cycles), and committed to establishing an end-to-end value chain ecosystem integrating R&D, manufacturing, and sales operations. As a representative enterprise of new quality productivity in new materials sector, we deliver competitive products and solutions through continuously innovative core technologies, professional services, and efficient operational systems. Our business spans three key domains: green and low-carbon new materials, high-performance new materials, and integrated agricultural film services. Our key served industries include: sustainable agriculture, consumer goods, packaging, 5G communication materials, 3D printing, industrial components, modern medical field, and electronics.

Guided by market demand, we operate 330,000 m² of smart manufacturing bases and foster industry-academia collaborations. Our innovation institutes include: Guangzhou R&D Institute, which focusing on cutting-edge material research; Joint R&D platforms with Tianjin University, Chinese Academy of Agricultural Sciences and Heilongjiang Bayi Agricultural University; and Biodegradable Agricultural Film Innovation Institute, which partnered with the Key Laboratory of Agricultural Film Pollution Prevention and Control (Beijing) under the Ministry of Agriculture and Rural Affairs. Under our Globalization 2.0 Strategy, we leverage European logistics hubs—including Genoa Port (Italy), Rotterdam Port (Netherlands), and Koper Port (Slovenia) —to establish a "48-Hour European Delivery Network" to enhance service efficiency for European clients.

We strive to create a sustainable future for all by extending industrial chains in collaboration with our partners, to uphold the mission of "Empowering Diverse Industries, Co-Creating a Brighter Tomorrow!"



GROUP FOUNDER

An Shuyi, Head of the Board

Chairperson of Shandong Ruian Biotechnology Co., Ltd.

Master's Degree in Environment and Development, LSE

Youth Entrepreneurship Pioneer (7th), Jining City

Member of the 2nd Youth Federation Committee, Jinxiang

County, Jining City

Outstanding Entrepreneur featured on "Entrepreneurship in Anhui" Program



As the new materials revolution and the global tide of carbon neutrality converge at this historic juncture, Ruian Group is charting a transformative course with our "Vertical Technology Integration Across Industrial Chains" strategy, forging a green innovation framework that bridges East and West. Over eight years, we have synchronized quantum-level breakthroughs in molecular design with 160,000 tons of green production capacity: from decoding material genomic sequences at the Guangzhou R&D Institute, to powering industrial-scale engines at the Demonstration Base in northern China. From optimizing global supply chains via EU logistics hubs, to revitalizing soil ecosystems through the Agricultural Film Pollution Prevention and Control Laboratory. This expansion transcends industrial boundaries—it is a multidimensional testament to Chinese ingenuity in addressing global environmental policies.

At the nexus of technological innovation and material science advancement, we are Penning a new chapter in human progress. 3D printing materials embody the structural vitality of smart manufacturing, 5G substrates weave eco-conscious neural networks for the digital era, and medical polymers compose molecular narratives of life and health. With elevated strategic vision, we are forging a full-chain "R&D-Manufacturing-Service" ecosystem to drive industrial transformation: Accelerating digital transformation to achieve intelligent, industry-ready production lines; Deepening industry-academia-research partnerships to cultivate a new materials innovation consortium; Expanding global footprints to establish worldwide R&D-production-distribution networks, injecting advanced material solutions into cross-sector ecosystems.

Looking ahead, Ruian Group will harness the "Dual-Carbon" goals as our strategic gravitational field, driving industrial value leapfrogs through the intellectual pulse of our global R&D nexus. We firmly believe that advanced materials should transcend mere metrics of physical performance—they must emerge as the optimal pathway to sustainable prosperity for a shared human future.

每书恰

Chairperson of Shandong Ruian

DEVELOPMENT MILESTONES

Innovation Forging Extraordinary Legacy

Began construction of 330,000m² Shandong materials project production base Launched biodegradable

Shandong base commenced full-scale production

- Ruian Guangzhou Research Institute commenced Operations
- Launched high-performance new

- Conducted crop-specific trials for biodegradable mulch films
- Opened European office & expanded to EU, South America, SEA & India markets
- Donor for Chengdu 31st Summer Universiade

- · Strategic partnership with Beidahuang Group Suihua Branch
- Collaboration with MOA Key Lab for Agricultural Film Pollution Prevention and Control
- Signed cooperation agreement with Zhuanghe Municipal Government

GROUP CULTURE

MISSION

Established Advanced

Materials Lab with Tianjin University

materials project

Empowering Diverse Industries, Co-Creating a Brighter Tomorrow

VISION

Become China's Premier And Global Leading Sustainable New Materials Service Provider

SPIRIT

Recognized as Chinese National High-

Established European logistics hubs

(Italy/Netherlands/Slovenia)

Tech Enterprise

Reinvent With Insight, Reassure With Foresight

VALUE

Client-Centric Commitment, Innovation-Driven Leadership, Uncompromising Quality, Eco-Safe Assurance

• Won "Best Entrepreneurship Project " award on Entrepreneurship in Anhui Program

• Built rice film-planting demo base in Shaoguan,

• University-enterprise cooperation with Heilong

• 5,000-ton multi-functional polyester production

jiang Bayi Agricultural University

line officially commenced operations

FOR THE FUTURE 守护明天和我们

INDUSTRIAL LAYOUT

Ruian Group has established a diversified technological innovation and industrial application service platform.

With a global network of operational entities and strategic partnerships, we drive sustainable industrial solutions across the entire value chain—from core technology R&D and application innovation to large-scale pilot testing. Our commitment to green development is realized through: Eco-optimized products designed for circular economies, High-efficiency services that streamline client operations, Future-ready solutions exceeding industry benchmarks.

Rotterdam, Netherlands - Warehouse

Ancona, Italy - Warehouse

Koper, Slovenia - Warehouse & European Office

Mainland China: Headquarter and Industrial Clusters

Jining

- Shandong Ruian BiotechnologyShangdong Ruian New Material
- Shangdong Ruian New Materia (330,000ಗೆ | 160,000 Tons/year)

Q Guangzhou

Guangzhou Research Institute

Huizhou

•Fengong Smart Agriculture (Huizhou) Co., Ltd.

Beijing

Collaboration with CAAS

nnovation Institute for R&D and Application ligh-Performance FUIIy Biodegradable Mulch film IARA Key Laboratory for Agricurural Film Pollutiontrol - Northen China

Industrialization Demonstration Bas

Shenzhen

 Youxiangfa (Shenzhen) Agricultural Technology Co., Ltd.

Fresh Grain Brand Operation Center

🌉 Daqing

- Cooperation with Heilongjiang Bayi Agriculture University
- Wuchang
- YouXiangFa (Wuchang) Fresh Grain Mulching Farm
- (Multi-year yield tests in Minle and Changbao County, Wuchang City)

Shanghai

• Shanghai Xinyuxuan Agricultural Technology Co.,Ltd.

(50,000+ acres with Beidahuang farms)

COMPETITIVE STRENGTHS Technological innovations remain our key forces driving

our sustainable development and maintaining our core competitiveness

R&D Investment

the next five years

Ratio of R&D Investment

Independent Institute

Key Labs

Researchers

Invention

Patents

R&D Results

26 **Utility Patents**

睿安科技



Qualifications











TUV Austria OK Industrial Compost

TUV Austria OK Home Compost

European Seedling Certification Germany Din Certco Industrial Compost

US BPI Certificate













ISO three system certification

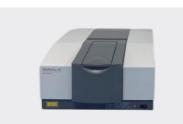
Supervision and Inspection Center (Beijing)

Composting Certification

Chinese National standard for biodegradable plastics

EU REACH Certificate

Quality Control



Fourier Transform Infrared Spectrometer



Thermogravimetry Differential Thermal Analyzer



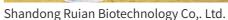
Headspace-Gas Chromatograph



PC Control Tensile Tester

Industrial Layout







Shandong Ruian New Material Technology Co., Ltd









Tianjin University-Ruian Joint Laboratory

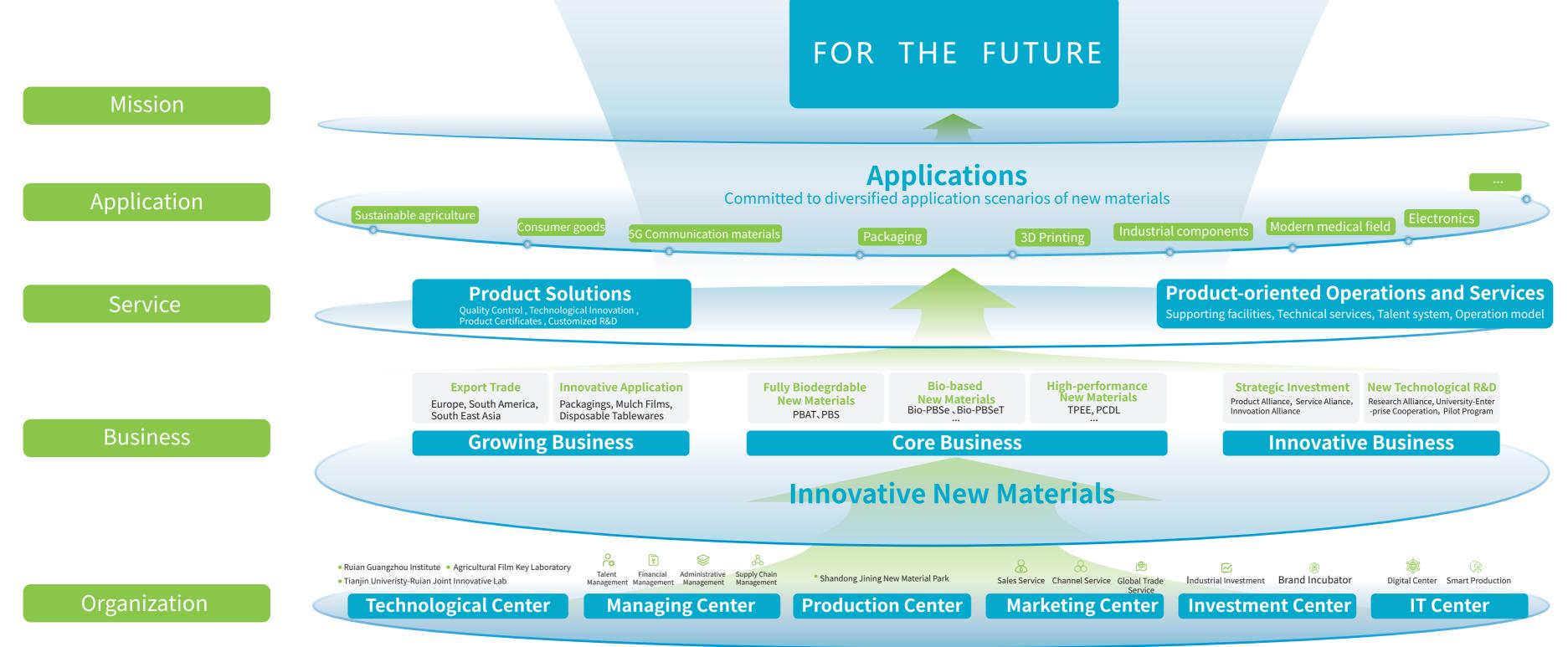
Guangzhou Research Institute

PART 02

GROUP STRATEGY



STRATEGIC BLUEPRINT



STRATEGIC ACTION

Working together to create a new chapter

University-Enterprise Cooperations







Industry recognition



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Mongolia Academy of Agricultural and Animal **Husbandry Sciences**



Cooperated with Tianjin University to establish the Polymer Materials Research Institute



Cooperation with Heilong jiang Bayi Agricultural University



农业农村部农膜污染防控重点实验室(北京)

山东睿安生物科技有限公司华北产业化示范基地

Key Laboratory of Agricultural Film Pollution Prevention and Control (Beijing), Ministry of Agriculture and Rural Affairs, P.R. China

中国农业科学院农业环境与可持续发展研究所

二〇二四年

Established the Key Laboratory of Agricultural Film Pollution Prevention and Control of the Ministry of Agriculture and Rural Affairs-North China Industrialization Demonstration Base with the Institute of Agricultural Environment and Sustainable Development of the Chinese Academy of Agricultural Sciences



高性能全生物降解地膜研发与应用创新研究院

Key Laboratory of Agricultural Film Pollution Prevention and Control (Beijing). Ministry of Agriculture and Rural Affairs

> 农业农村部农膜污染防控重点实验室 山东睿安生物科技有限公司

> > 二〇二四年

Established the High-Performance Fully Biodegradable Ground Film R&D and Application Innovation Research Institute with the Key Laboratory of Agricultural Film Pollution Prevention and Control (Beijing) of the Ministry of Agriculture and Rural Affairs

PART 03 **GROUP BUSINESS** FOR THE FUTURE

GREEN AND LOW-CARBON NEW MATERIALS

We focus on fully biodegradable new materials PBAT、PBS and other bio-based new materials with our advanced technology on balancing the degradation performance and application performance. We strictly implement green standards in the production process to reduce energy consumption and emissions. With excellent environmental protection characteristics, our products are widely used in packaging, agriculture, medical and other industries, enabling us to establish stable cooperations with customers.

Fully Biodegradable

Low-carbon Emission Reduction

Bio-based



FULLY BIODEGRADABLE MATERIAL SERIES Green solutions to white pollution

The fully biodegradable new materials have both excellent performance and wide applications. PBAT has outstanding film-forming properties, and PBS has good heat resistance and excellent mechanical properties. They can be used in packaging, agriculture, medical and other fields. Moreover, they can both be completely biodegraded into carbon dioxide, water and inorganic salts, which perfectly fit the global green development trend and help to address the problem of white pollution.

Synthetic Materials	Modified Materials	Applications
	Blown Film Material	Fully Biodegradable Packaging Bags
2017	Mulch Film Material	Agricultural Mulch Film
PBAT PBS	Injection Molding Material	Disposable Cutlery
	Thermoforming Material	Disposable Food Container
	Coating Material	Coated Paper Cup



PBAT Polybutylene Adipate-co-terephthalate

Raw material: Adipic acid(AA), Terephthalic acid (PTA), 1,4-Butanediol(BDO)

Features

Good ductility and elongation at break, good heat resistance and impact resistance. In addition, PBAT is very simliar to LDPE in terms of processing performance, and it can be blown by LDPE processing equipments.

Applications

widely used in packaging, disposable products, agriculture.













SGS

PBS Polybutylene Succinate

Raw material: Succinic Acid,1,4-Butanediol(BDO)

Features

Excellent mechanical properties, good formability, high heat resistance and excellent processing formability (extrusion, injection molding, casting, etc.).

Applications

widely used in packaging, disposable products, agriculture, fisheries, forestry, civil engineering, medical field and others.











BIO-BASED MATERIAL SERIES

Innovative options of sustainable development

We are constantly making breakthroughs under the balance between environmental protection and application performance. We develop Bio-PBSe, Bio-PBSeT, Bio-PBAT, and Bio-PBS series products to achieve true co-existence between high application performance and sustainability. Whether it is hot melt adhesives that require high temperature resistance, film packaging that pursues flexibility, or fast-degradable utensils, our materials can reduce carbon footprint while maintaining industrial-grade performance.

Product	Raw Material	Bio-based Content(%)	Applications
Bio-PBSe	BDO SeA	60	Hot melt adhesive
Bio-PBSe	BDO SeA	100	Hot melt adhesive
Bio-PBSeT	BDO SeA PTA	35	Films and bags
Bio-PBSeT	BDO SeA PTA	67	Films and bags
Bio-PBAT	BDO AA PTA	35	Films and bags
Bio-PBS	BDO SA	40	Injection molding and thermoforming
Bio-PBS	BDO SA	100	Injection molding and thermoforming

	Degradation Property				
Product Series	Industrial Compost(58°C)	Home Compost(30°C)	Ocean Environment	Testing Standard	
Bio-PBAT shopping bag	180days/98%	360days/85%	1year/80%	ASTM D5338-15	
Bio-PBS coffee capsule	120days/99%	240days/90%	1year/75%	EN 13432:2000	
Bio-PBSeT mailer bag	210days/97%	420days/82%	1year/78%	OECD 306B	



HIGH PERFORMANCE NEW MATERIALS

Covering TPEE, PCTG/PETG, PCDL, PEF and other products. Through continuous exploration and innovation, we optimize the differentiated properties of different products such as high temperature resistance, oil resistance, high transparency, high elasticity and high strength to adapt to the ever-changing market trends. We widely evaluate multiple fields such as automobiles, electronic appliances, packaging, and medical field etc., to provide support for the high-quality development of various industries.

Outstanding Performance

High Added Value

Superior Cost-effectiveness

Product	Features	Applications
TPEE	Low melting point, high melt strength, high foaming rate, high resilience	Footwear, packaging, automotive interior, thermal and sound insulation and other foaming industry
PCTG/PETG	High transparency, chemical resistance, easy molding and processing, environmentally friendly	Food packaging, cosmetic containers, bottles, films and special-shaped materials
PCDL	Flexible, wear-resistant, hydrolysisresistant, chemical-resistant, moisture and heat-aging-resistant, transparent, high bonding strength	Mainly used in PU, including water-based coatings,adhesives, artificial leather, transparent elastomers,transparent films, transparent coatings and high-performance PU
PEF	100% bio-based and recyclable; water, oxygen, carbon dioxide barrier rate, mechanical strength and heat resistance are all better than PET	Food and beverage packaging,cosmetics and skin care packaging,textiles such as clothing, home decoration and other industries



TPEE Thermoplastic Polyester Elastomer

Features

It has excellent mechanical properties, outstanding heat resistance and excellent processability, as well as chemical stability such as oil resistance and hydrolysis resistance, making it an ideal choice for high-performance elastomers. The rebound resilience is 75%, and the specific gravity is 30% lower than that of TPU. High low temperature resistance is up to -25°C. The microporous structure of supercritical foamed TPEE is uniform and fine, with a diameter of about 20-200um, which is better than chemical foaming. It can be recycled without residue.

Application

Widely used in high-end fields such as Automotive Seals and Piping Systems, Electronic Cable Sheaths, Industrial Conveyor Belts and Sports Equipment, Meeting The Scenarios with Strict Requirements on Elasticity, Temperature Resistance and Durability.



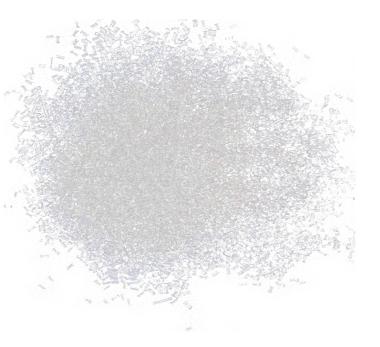
PCTG/PETGPoly Ethylene Terephthalate-I, 4-Cyclohexanedimethylene Terephthalate

Features

100% recyclable, Excellent processability, High clarity, superior impact resistance, and flexural durability. Broad temperature tolerance (-40°C to 100°C), chemical resistance and UV/aging resistance.

Application

Widely used in food packaging, medical equipment, electronic products, industrial parts and other fields, and can also be used as 3D printing materials and optical devices.



PCDL Polycarbonate Diol

Features

Polyurethane made from PCDL can have the following features: Flexibility, Wear Resistance, Hydrolysis Resistance, Chemical Resistance, Heat and Humidity Resistance, Transparency, and High Bonding Strength.

Application

Widely used in polyurethane, including Water-Based Coatings, Adhesives, Artificial Leather, Transparent Elastomers, Transparent Films, Transparent Coatings and High-Performance Polyurethanes.



PEF Poly Ethylene 2,5-Furandicarboxylate

Features

100% bio-based, recyclable; water, oxygen, carbon dioxide barrier rate, mechanical strength and high temperature resistance are all better than PET.

Application

Widely used in Food and Beverage Packaging, Cosmetics and Skin Care Packaging, Textiles such as Clothing, Home Decoration



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PART 04 DIVESIFIED APPLICATIONS



AUTOMOBILE APPLICATION

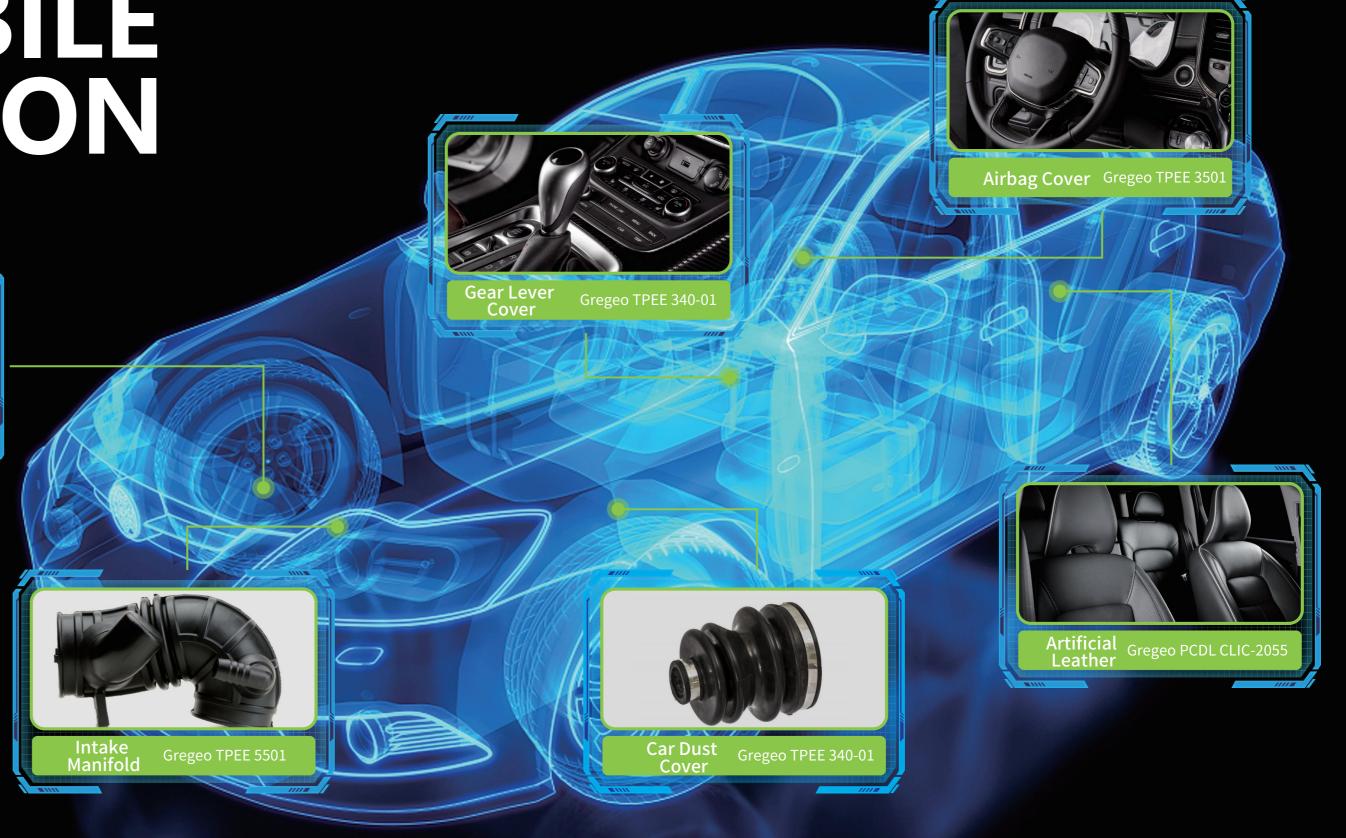


Core Materials:

TPEE, PCDL-based polyurethane

Application Scenarios:

Automobile dust cover, intake manifold, airbag cover, automobile pipe, etc.



CONSUMER GOODS AND PACKAGING APPLICATION







O2
PEF、PETG/PCTG and etc.





PBAT、PBS、Bio-PBAT、Bio-PBS and etc.

















Core Materials:

PBAT、PBS、Bio-PBAT、Bio-PBS、PEF、PCTG

Application Scenarios:

Catering Utensils, Daily Necessities, Food Packaging, Luxury Goods Packaging, Cosmetics and so on.

APPLICATION OF FULLY BIODEGRADABLE MULCH FILM

Fully biodegradable mulch refers to a biodegradable film made of biodegradable materials as the main raw material, used to cover the soil surface when planting crops. Fully biodegradable mulch not only has the advantages of traditional polyethylene mulch, but also has the advantages of increasing ground temperature, retaining soil moisture, and inhibiting weeds. It can also be completely biodegraded, which can effectively solve the problem of residual pollution of mulch film. It is of great significance to promote the sustainable development of agriculture and protect the ecological environment.

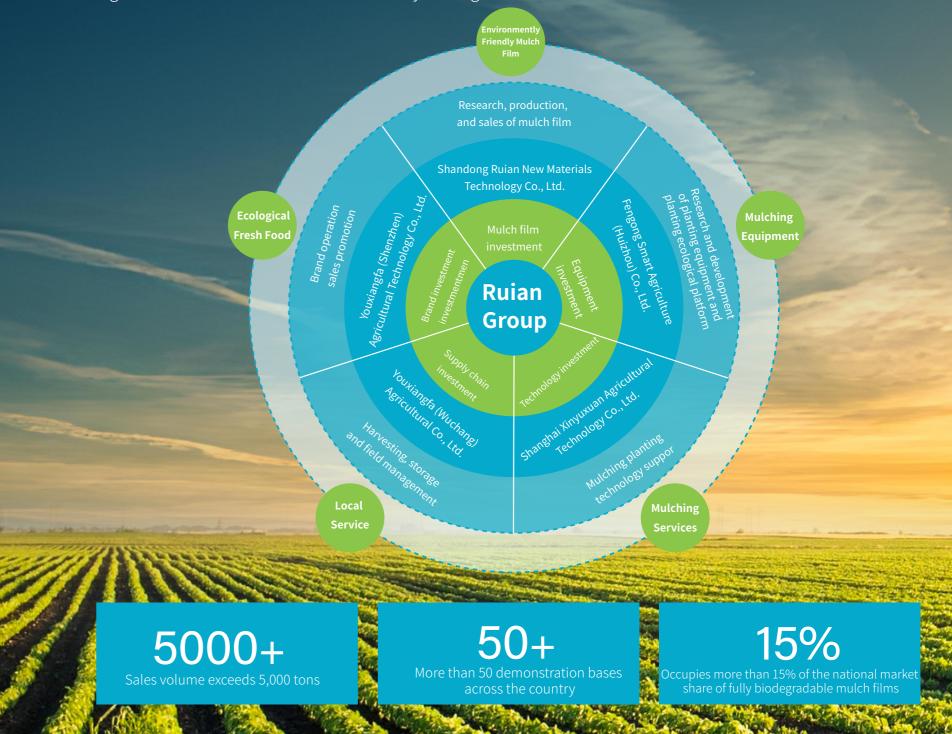
Increase In Yield And Income **Good Performance** On the one hand, it can improve the soil, and on the It has good mechanical properties, which can meet the other hand, the degradation of mulch film can signifineeds of mechanical film laying. At the same time, the cantly increase the yield of some crops. mulch film after harvest will not entangle the machine. **Adjustable Degradation Time Adjustable Thickness** The induction period is adjustable from 30 to 150 The thickness of the mulch film can be custom-days to better meet the degradation needs of V ized according to different regions and crops. different crops in different regions. **PBAT** Modification **Fully Biodegradable Personalized Customization** 2= After the crops are harvested, the mulch film can be Crop-specific biodegradable films can be directly plowed into the soil without recycling and customized according to different regions completely degraded into water, carbon dioxide and inorganic salts, without polluting the soil.



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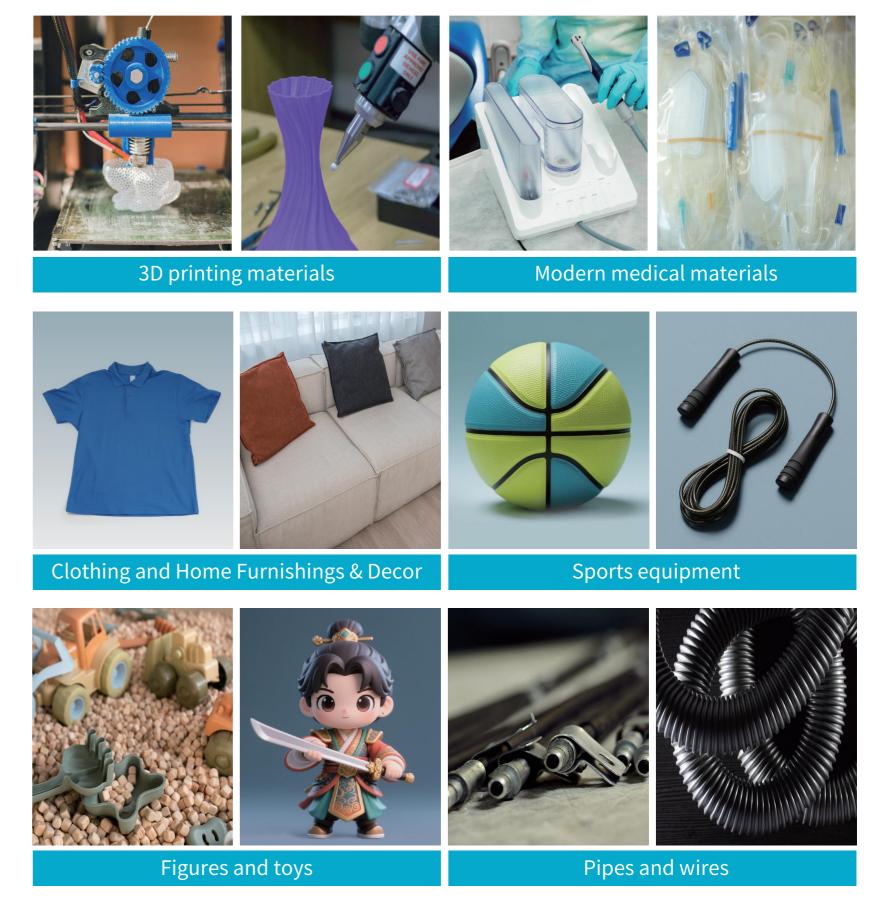
INTEGRATED AGRICULTURAL SERVICE

Ruian Group is currently the only technology-innovative enterprise with a full industrial chain layout that integrates R&D production, agricultural machinery R&D, agricultural supporting services, and sales of agricultural products. Since October 2022, Ruian Group has achieved sales of over 5,000 tons of modified mulch materials and finished mulch products in more than 30 provinces and regions across China, accounting for more than 15% of the national fully biodegradable mulch market.



OTHER APPLICATION





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INDUSTRIALIZATION DEMONSTRATION BASE





Ruian Group × Bayi Agricultural University Experimental case of rice covered with film in Minle Township, Wuchang City

Cooperating with the rice cultivation team of Heilongjiang Bayi Agricultural University, a rice mulching biodegradable mulch planting technology demonstration area was established in Minle Township, Wuchang City, with remarkable application results. The actual test results show that this rice mulching planting technology can effectively avoid the use of herbicides, save water and fertilizer, and increase production and efficiency.





应用睿安科技生物降解地膜种植移栽水稻测产报告

2024年10月2日山东睿安集团邀请黑龙江八一农垦大学水稻载 培团队对五常市民乐乡应用睿安科技生物降解地膜移载水稻生产有 机米的应用效果进行小面积实收测产。

1、应用基本情况: 機膜移敘水稻面积 2 公顷,对照区面积 2 公顷,供试水稻品种为稻花香 2 号。处理区和对照区均为 5 月 10 日移栽。移栽栽株 9×5 寸, 每次 5-6 亩、稷原移栽处理区于铁苗移栽的同时常降解粮 (更少数。其它条件与对照区相同,生育期向均不打除草剂和助房房积积。

2、覆膜移栽处理区与对照区相比:水稻长势整齐一致,几乎无杂草。 与对照相比,处理区穗大粒多,结实率较高。

黑龙江八一次是大学专家在对全田勤察的基础上,对处理区和对 照区核"V"字型分别随机选取3个小区,每个小区收割1平方米。 经股粒、去除杂质和疱粒,称量都谷鲜重、测稻谷含水率。按标准含 水率14.5%进行折算稻谷产量。折算公式即下,水稻亩产(公斤)= 稻谷鲜重×[1.稻俗含水率%]+[1-14.5%]×666.7。测产结果为;

处理	生长情况	占比 (%)	取样面积	鲜谷重 (kg)	稻谷含 水率(%)	折亩产 (kg)	增产%
ph 00 45 45 00	生长良好	70	1 m	0.705	20.1	439. 2	40.0
应用生物降	生长中等	20	1 m'	0.664	19.8	415.5	32.4
解膜	生长不良	10	1 m²	0. 530	19.3	334.0	6.4
对照 (无膜, 有机生产)	生长整齐	100	1 m²	0. 496	18. 9	313.8	

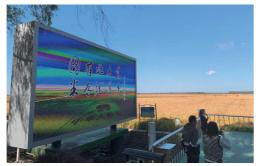
黑龙江八一农垦大学水稻栽培课题组 名字 计文字





Ruian Group × Beidahuang Group Experilental Case In Heilongjlang Zhaoyuan Farm

Starting from 2023, we cooperated with Beidahuang Agricultural Reclamation Group Zhaoyuan Farm Co., Ltd. to carry out experiments on new organic rice mulching cultivation technology. Through the organic combination of customized fully biodegradable mulch film and new integrated planting equipment for mulching and transplanting, we can save huge manual weeding costs and reduce irrigation water input while achieving significant yield increases, with the highest yield increase of 118.19% recorded in actual measurements.





应用睿安科技生物降解地膜种植移栽水稻测产报告

2024年北大荒集团黑龙江肇源农场有限公司与山东睿安新材料 科技有限公司合作开展了覆牒有机水稻栽培技术试验,通过覆膜插秧

- 科技有限公司合作开展了復興有机水稻栽培技术试验, 地过缓眼插来 一体机, 一次性完成覆膜插映作业, 9月 25-26 日对覆膜有机水稻和 崇導有机水稻进行了空收空洞。
- 应用基本情况:处理区(有机覆膜插秧水稻)面积113.32
 对照区(常规有机水稻)面积27.9亩,供试水稻品种为稻花香2
- 。处理区和对照区均为5月8日移栽,移栽规格9×4寸,每穴5-6 。 覆膜移栽处理区于核苗移敷的同时将降解膜覆于地表,其它条件 3对丽区相同, 牛育期间采用人工除草,均不打除草剂和防病药剂。
- 2、覆膜移栽处理区与对照区相比: 水稻长势整齐一致,几乎无 杂草。与对照相比,处理区平均株高 113 厘米,比对照株高高 20 厘
- 9月25-26日对处理区 113.32亩和对照区 27.9亩进行了实收实测, 处理区平均亩产 380.85 kg/亩,对照区平均亩产 174.55 kg/亩,增产达

种植户 面积	(高眼右	(要膜有机种植)		对照 (常规有机种植)			
		以产	平均亩产	面积	2,7*	平均亩产	(%)
马春雨	48. 43	17260	356. 39	13.20	2040	154.55	130.60
林东旭	64, 89	26300	405.30	14.70	2860	194.56	108.32

北大荒集团黑龙江肇源农场有限公司 了

SUSTAINABLE DEVELOPMENT VISION

SAFEGUARD BIODIVERSITY

PROMOTION RESOURCES

SUSTAINABLE UTILIZATION



PUSH GREEN INDUSTRIES
DEVELOPMENT

GREENHOUSE GAS EMISSION REDUCTION



We will work together with global partners to drive a green future with innovative new materials, build a sustainable and diversified industrial ecosystem, and together for the future.