KINGFA

BEAUTY ORIGINATES FROM THE NATURE
SUSTAINABILITY SHAPES THE FUTURE

Helping brand owners achieve PCR usage targets and carbon reduction targets:

- High PCR content, low carbon emissions
- Excellent appearance, low odor
- Good batch consistence



PERSONAL CARE/HOME CARE

Grade

- HDPE-GH6100，HDPE-GH6200，100%PCR
- HDPE-GH6030，70%PCR

Performance characteristics

·Excellent toughness, high impact strength
·High melt strength, easy to blow mold
·Low odor, good appearance (less black spots), good resistance to environmental stress cracking





Item	Standard	Test Condition	Unit	HDPE-GH6100	HDPE-GH6200
Tensile Strength	ISO 527-2	50mm/min	MPa	27.5	26.2
Elongation at break	ISO 527-2	50mm/min	%	690	657
Density	ISO 1183-1	23℃	g/cm3	0.95	0.955
Melt flow rate (MFR)	ISO 1133-1	190℃, 2.16kg	g/10min	0.32	0.35

- **White HDPE:** 30~100% PCR
- **Grade:** HDPE-GH7050 F， RHE-MJN
- **Processing Method:** Injection Molding

- **Translucent HDPE:** 30~100% PCR
- **Grade:** HDPE-GH6030 NC007(F)
- **Processing Method:** Injection Molding
  Compression Molding

Performance characteristics

·Excellent toughness, high impact strength
·Good flowability, easy to process
·Low odor, good appearance (less black spots), good resistance to environmental stress cracking









Items	Standards	Test conditions	Units	RHE-MJN043A9 RF, HDPE-GH7050 NC005(F)	RHE-MJN053A9 RF, HDPE-GH7050 NC001(F)	HDPE-GH6030 NC007(F)
Tensile strength	ISO 527-2	50mm/min	MPa	≥25	≥25	≥25
Elongation at break	ISO 527-2	50mm/min	%	≥550	≥550	≥550
Density	ISO 1183-1	23℃	g/cm3	0.95±0.01	0.95±0.01	0.95±0.01
Melt flow rate (MFR)	ISO 1133-1	190℃, 2.16kg	g/10min	1-3	4	0.7-1.3
Izod Notched Impact Strength	ISO 180	23℃	kJ/m²	3-7	3-7	≥15

- **Translucent HDPE:** 30~100%PCR
- **Grade:** HDPE-GH6030 F， RHE-YN52A9 RF， PE-BF6300
- **Processing Method:** Blow Film, Extrusion Tube

Performance characteristics

·Excellent toughness, high impact strength
·High melt strength, easy to blow mold
·Low odor, good appearance (less black spots), good resistance to environmental stress cracking



Cosmetic Tube



Toothpaste Tube

Items	Standards	Test conditions	Units	RHE-YN52A9 RF	HDPE-GH6030 NC001(F)	HDPE-GH6030 NC007(F)	PE-BF6300
Tensile strength	ISO 527-2	50mm/min	MPa	≥25	≥25	≥25	≥10
Elongation at break	ISO 527-2	50mm/min	%	≥550	≥550	≥550	≥100
Density	ISO 1183-1	23℃	g/cm3	0.95±0.01	0.94±0.01	0.95±0.01	0.93±0.01
Melt flow rate (MFR)	ISO 1133-1	190℃, 2.16kg	g/10min	0.7-1.3	0.6-1.0	0.7-1.3	4.0-8.0
Material description	——	——	——	HDPE + LDPE	HDPE + LLDPE	HDPE	LDPE

BEAUTY

- **Transparent Random PP:** 30~100%PCR
- **Grade:** CB-N Series
- **Processing Method:** Injection Molding

Performance characteristics

·Good transparency, low haze
·Resistant to bending, resistant to stress whitening







Items	Standards	Test conditions	Units	CB-N1M2A FANC004
Tensile strength	ISO 527-2	50mm/min	MPa	26
Elongation at break	ISO 527-2	50mm/min	%	150
Density	ISO 1183-1	23℃	g/cm3	0.9
Melt flow rate (MFR)	ISO 1133-1	190℃, 2.16kg	g/10min	25
Material description	——	——	——	PP

- **Injection PP:** 30~100%PCR
- **Grade:** CB-N Series
- **Processing Method:** Injection Molding

Performance characteristics

·Good transparency
·Good flowability
·Excellent low odor, good appearance





Items	Standards	Test conditions	Units	CB-N1H1A FANC002
Tensile strength	ISO 527-2	50mm/min	MPa	32
Elongation at break	ISO 527-2	50mm/min	%	50
Density	ISO 1183-1	23℃	g/cm3	0.9
Melt flow rate (MFR)	ISO 1133-1	190℃, 2.16kg	g/10min	42
Material description	——	——	——	PP

BEAUTY

- **Injection PP:** 30~100%PCR
- **Grade:** CB-N1L2A
- **Processing Method:** Blow Molding

Performance characteristics

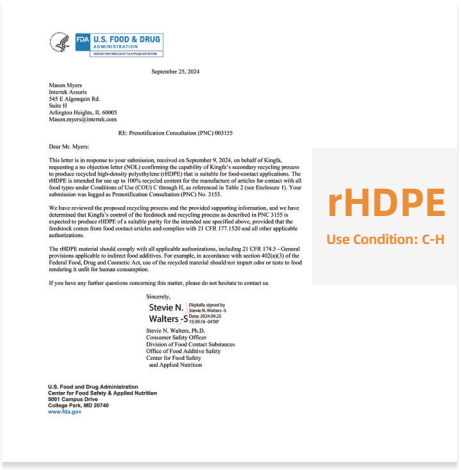
·High rigidity, low melt index, suitable for blow molding
·High melt strength, easy to process
·Excellent low odor, good appearance





Items	Standards	Test conditions	Units	CB-N1L2A FANC002
Tensile strength	ISO 527-2	50mm/min	MPa	23
Elongation at break	ISO 527-2	50mm/min	%	100
Density	ISO 1183-1	23℃	g/cm3	0.9
Melt flow rate (MFR)	ISO 1133-1	190℃, 2.16kg	g/10min	1.2
Material description	——	——	——	PP

CERTIFICATION—FDA NOL



U.S. FOOD & DRUG ADMINISTRATION

September 25, 2024

Mason Myers
Intertek Asmara
545 E Algonquin Rd.
Suite H
Arlington Heights, IL 60005
Mason.myers@intertek.com

RE: Premotification Consultation (PNC) 003155

Dear Mr. Myers:

This letter is in response to your submission, received on September 9, 2024, on behalf of Kingfa, requesting a no objection letter (NOL) confirming the capability of Kingfa's secondary recycling process to produce recycled high-density polyethylene (rHDPE) that is suitable for food-contact applications. The rHDPE is intended for use up to 100% recycled content for the manufacture of articles for contact with all food types under Conditions of Use (COU) C through H, as referenced in Table 2 (see Enclosure 1). Your submission was logged as Premotification Consultation (PNC) No. 3155.

We have reviewed the proposed recycling process and the provided supporting information, and we have determined that Kingfa's control of the feedstock and recycling process as described in PNC 3155 is expected to produce rHDPE of a suitable purity for the intended use specified above, provided that the feedstock comes from food contact articles and complies with 21 CFR 177.1520 and all other applicable authorizations.

The rHDPE material should comply with all applicable authorizations, including 21 CFR 174.5 - General provisions applicable to indirect food additives. For example, in accordance with section 402(a)(3) of the Federal Food, Drug and Cosmetic Act, use of the recycled material should not impart odor or taste to food rendering it unfit for human consumption.

If you have any further questions concerning this matter, please do not hesitate to contact us.

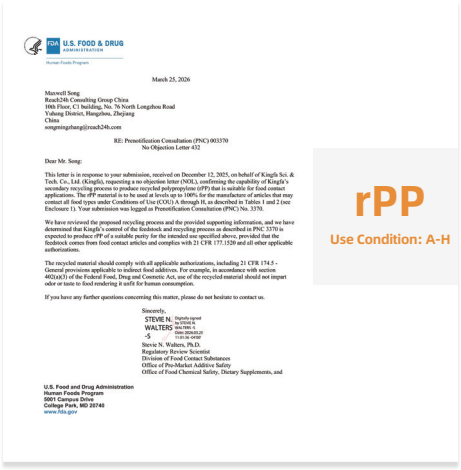
Sincerely,

Stevie N. Walters -S

Stevie N. Walters, Ph.D.
Consumer Safety Officer
Division of Food Contact Substances
Office of Food Additive Safety
Center for Food Safety
and Applied Nutrition

U.S. Food and Drug Administration
Center for Food Safety & Applied Nutrition
5001 Campus Drive
College Park, MD 20740
www.fda.gov

rHDPE
Use Condition: C-H



U.S. FOOD & DRUG ADMINISTRATION
Human Foods Program

March 25, 2026

Maxwell Song
Reach24h Consulting Group China
10th Floor, C1 building, No. 76 North Longzhou Road
Yuhang District, Hangzhou, Zhejiang
China
songmingzhang@reach24h.com

RE: Premotification Consultation (PNC) 003370
No Objection Letter 432

Dear Mr. Song:

This letter is in response to your submission, received on December 12, 2025, on behalf of Kingfa Sci. & Tech. Co., Ltd. (Kingfa), requesting a no objection letter (NOL), confirming the capability of Kingfa's secondary recycling process to produce recycled polypropylene (rPP) that is suitable for food contact applications. The rPP material is to be used at levels up to 100% for the manufacture of articles that may contact all food types under Conditions of Use (COU) A through H, as described in Tables 1 and 2 (see Enclosure 1). Your submission was logged as Premotification Consultation (PNC) No. 3370.

We have reviewed the proposed recycling process and the provided supporting information, and we have determined that Kingfa's control of the feedstock and recycling process as described in PNC 3370 is expected to produce rPP of a suitable purity for the intended use specified above, provided that the feedstock comes from food contact articles and complies with 21 CFR 177.1520 and all other applicable authorizations.

The recycled material should comply with all applicable authorizations, including 21 CFR 174.5 - General provisions applicable to indirect food additives. For example, in accordance with section 402(a)(3) of the Federal Food, Drug and Cosmetic Act, use of the recycled material should not impart odor or taste to food rendering it unfit for human consumption.

If you have any further questions concerning this matter, please do not hesitate to contact us.

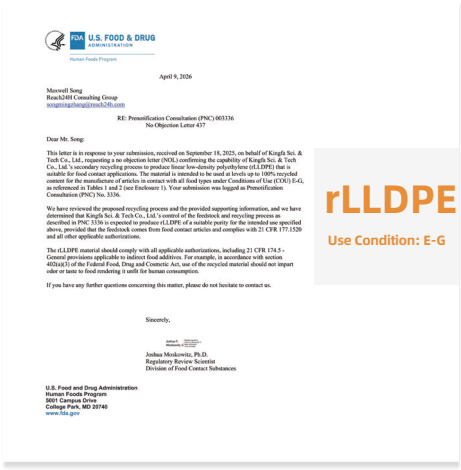
Sincerely,

STEVIE N. WALTERS -S

Stevie N. Walters, Ph.D.
Regulatory Review Scientist
Division of Food Contact Substances
Office of Pre-Market Additive Safety
Office of Food Chemical Safety, Dietary Supplements, and

U.S. Food and Drug Administration
Human Foods Program
5001 Campus Drive
College Park, MD 20740
www.fda.gov

rPP
Use Condition: A-H



U.S. FOOD & DRUG ADMINISTRATION
Human Foods Program

April 9, 2026

Maxwell Song
Reach24H Consulting Group
songmingzhang@reach24h.com

RE: Premotification Consultation (PNC) 003336
No Objection Letter 427

Dear Mr. Song:

This letter is in response to your submission, received on September 18, 2025, on behalf of Kingfa Sci. & Tech Co., Ltd., requesting a no objection letter (NOL) confirming the capability of Kingfa Sci. & Tech Co., Ltd.'s secondary recycling process to produce linear low-density polyethylene (rLLDPE) that is suitable for food contact applications. The material is intended to be used at levels up to 100% recycled content for the manufacture of articles in contact with all food types under Conditions of Use (COU) E-G, as referenced in Tables 1 and 2 (see Enclosure 1). Your submission was logged as Premotification Consultation (PNC) No. 3336.

We have reviewed the proposed recycling process and the provided supporting information, and we have determined that Kingfa Sci. & Tech Co., Ltd.'s control of the feedstock and recycling process as described in PNC 3336 is expected to produce rLLDPE of a suitable purity for the intended use specified above, provided that the feedstock comes from food contact articles and complies with 21 CFR 177.1520 and all other applicable authorizations.

The rLLDPE material should comply with all applicable authorizations, including 21 CFR 174.5 - General provisions applicable to indirect food additives. For example, in accordance with section 402(a)(3) of the Federal Food, Drug and Cosmetic Act, use of the recycled material should not impart odor or taste to food rendering it unfit for human consumption.

If you have any further questions concerning this matter, please do not hesitate to contact us.

Sincerely,

Joshua Moskowitz, Ph.D.
Regulatory Review Scientist
Division of Food Contact Substances

U.S. Food and Drug Administration
Human Foods Program
5001 Campus Drive
College Park, MD 20740
www.fda.gov

rLLDPE
Use Condition: E-G

CERTIFICATION - GRS



TÜV Rheinland (China) Ltd.

Scope Certificate

Scope Certificate Number TRC-GRS-221910
Scope Certificate Version Number TRC-GRS-221910-02

TÜV Rheinland (China) Ltd.
certifies that
Kingfa Environmental Sci-Tech Co., Ltd.
金发环保科技有限公司
Textile Exchange ID (TE-ID): TE-00030412
CB-TRC Client Number: 2496531

NO.38 DIELONG ROAD, QINGCHENG DIST, QINGYUAN, 511545, GUANG DONG PROVINCE, CHINA

has been audited and found to be in conformity with the

Global Recycled Standard (Version 4)

Product categories mentioned below (and further specified in the product appendix) conform with the standard(s):
Processed post-consumer materials (PCR033); Processed pre-consumer materials (PCR041)

Process categories carried out under responsibility of the above-mentioned organization for the certified products cover:
Mechanical recycling (PR0017); Extrusion (PR00010); Warehousing, distribution of non-final products (PR00031)
*The processes marked with an asterisk may be carried out by subcontractors.

This certificate is valid until: 2026-04-28
Audit criteria: Global Recycled Standard 4.0, Content Claim Standard 3.1, Standard Claim Policy 1.3

Certification Body Licensed by: Textile Exchange; Licensing Code: CB-TRC
Certification Body Accredited by: IOAS
Inspection Body: TÜV Rheinland (China) Ltd.
Auditor(s): Chris Zhang

This scope certificate provides no proof that any goods delivered by its holder are Global Recycled Standard (GRS) certified. Proof of Global Recycled Standard (GRS) certification of goods delivered is provided by a valid transaction certificate (TC) or equivalent covering them.
The issuing body may withdraw this certificate before it expires if the declared conformity is no longer guaranteed.
To authenticate this certificate, please visit www.TextileExchange.org/Certificates.

Place and Date of Issue
Beijing, 2025-04-28
Last Updated: 2025-05-21
Extended Until: NA
Status: V
Signature of Authorized Person

Jane Wang

Name of Authorized Signatory:
Jane Wang

Certification Body: TÜVRheinland® Precisely Right.
Standard: Global Recycled Standard

This is an electronically issued document in the valid original version.
TE-ID: TE-00030412

Page 1 of 12

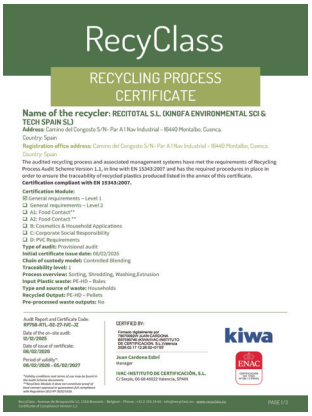
·**Certification body:** Kingfa Environmental
·**Inspection body:** Intertek Group
·**Time of first certification:** 2023-04-26
·**Certification Base:** Qingyuan base and Pizhou base
·**Scope of certificate :**
Product: Post-consumer and pre-consumer materials
Activity: Mechanical recycling, storage, trade

·The Global Recycling Standard GRS aims to: Harmonize the definition of multiple applications, trace recyclable input materials, provide customers (brands and consumers) with a tool to make informed decisions, reduce the harmful impact of production on people and the environment, ensure more sustainable recycling and handling of materials in the final product, and promote innovation in quality issues in the use of recycled materials.

·The Global Recycling Standard is an international, voluntary and comprehensive product standard that specifies third-party certification requirements for recycled content, chain of custody, social responsibility and environmental practices, and chemical restrictions.

Global Recycled Standard

CERTIFICATION—RecyClass


RecyClass

RECYCLING PROCESS CERTIFICATE

Name of the recycler: RECITOTAL S.L. (KINGFA ENVIRONMENTAL SCI & TECH SPAIN SL)

Address: Camino del Congosto S/N- Par A1 Nav Industrial - 16440 Montalbo, Cuenca.

Country: Spain

Registration office address: Camino del Congosto S/N- Par A1 Nav Industrial - 16440 Montalbo, Cuenca.

Country: Spain

The audited recycling process and associated management systems have met the requirements of Recycling Process Audit Scheme Version 1.1, in line with EN 15343:2007 and has the required procedures in place in order to ensure the traceability of recycled plastics produced listed in the annex of this certificate.

Certification compliant with EN 15343:2007.

Certification Module:

☒ General requirements – Level 1

☐ General requirements – Level 2

☐ A1: Food Contact**

☐ A2: Food Contact **

☐ B: Cosmetics & Household Applications

☐ C: Corporate Social Responsibility

☐ D: PVC Requirements

Type of audit: Provisional audit

Initial certificate issue date: 06/02/2026

Chain of custody model: Controlled Blending

Traceability level: 1

Process overview: Sorting, Shredding, Washing,Extrusion

Input Plastic waste: PE-HD – Bales

Type and source of waste: Households

Recycled Output: PE-HD – Pellets

Pre-processed waste outputs: No

Audit Report and Certificate Code: RPTRA-RTL--02-ZY-FAC--2E

Date of the on-site audit: 02/02/2026

Date of issue of certificate: 06/02/2026

Period of validity*: 06/02/2026 – 05/02/2027

CERTIFIED BY:

kiwa

ENAC

Juan Cordova Eabol

Manager

IVAC INSTITUTO DE CERTIFICACIÓN, S.L.

C/ Serpis, 64-68 46022 Valencia, SPAIN

PAGE 1/3

- **Certification body:** Kingfa Environmental Sci & Tech Spain SLCurrent
- **Current inspection body:** IVAC-INSTITUTO DE CERTIFICACIÓN, S.L. (Kiwa Group)
- **Time of first certification:** February 6, 2026
- **Certification Base:** Kingfa Cuenca Facility, Spain
- **Scope of certificate :**

Post-consumer HDPE (High-Density Polyethylene) recycling pelletizing and crushing processes

PCR Content of Outputs: 95%–100% (covering various recycled HDPE pellets and regrind in grey, white, natural color, etc.)

PCR Content of Outputs: Compliant with EN 15343:2007

· RecyClass is a comprehensive cross-industry initiative led by European Plastics Recyclers Association, dedicated to advancing the recyclability of plastic packaging and ensuring transparency and traceability of recycled plastics across the entire value chain.

· Obtaining the RecyClass Recycling Process Certificate verifies that Kingfa Environmental Protection Spain meets stringent European standards in the sorting, shredding, washing and extrusion processes for post-consumer household packaging waste. This certification not only validates the authenticity of the 95%–100% post-consumer recycled plastic (PCR) content in its products, but also passes rigorous audits in accordance with EN 15343. It provides highly credible green packaging material endorsement for international brands seeking to enter the European market, helping mitigate compliance risks and plastic tax pressures.

CERTIFICATION—BRCGS


NSF Certificate of Conformity

Audit Date
28 June 2023

Next Audit Due
(May 31, 2024 - Jun 28, 2024)

Certificate Expiry Date
09 August 2024

Certificate Number
C0774025-BRC1

BRC Reference No
10009994

BRC Auditor No
20508

Date of Issue
24 July 2023

Signed on behalf of NSF Certification, LLC

Sarah Krol
Senior Managing Director, Global Supply Chain

KINGFA ENVIRONMENTAL SCI. &TECH.CO., LTD.

No.A10 & A11 Building, No.39 Delong Road, Qingcheng Dist, Qingyuan City Guangdong Province China

Has been audited by NSF Certification, LLC #1181 and found to meet the requirements set out in the:

BRC Global Standard for Packaging Materials
Issue 6, August 2019

Audit Program:
Announced

Scope of Certification:
Mixing, extruding and pelletization of recycled polyethylene (PE) materials to form polyethylene (PE) resins to be used for general merchandise and personal care application.

Exclusions from Scope:
None

Fields of Audit:
08: Chemical processes

Grade Achieved: A

NSF Certification, LLC
789 N. Dixboro Road, Ann Arbor, MI 48105 USA

This certificate remains the property of NSF Certification, LLC.

If you would like to feed back comments on the BRC Global Standard or the audit process directly to the BRC Global Standards, please contact TellUS@brcglobalstandards.com.

To verify certificate validity, please visit www.brcdirectory.com.

ANSI ACCREDITED

BRCGS Certification Body
CERTIFICATED

- **Certification body:** Kingfa Environmental
- **Inspection body:** NSF
- **Time of first certification:** 2023-6-28
- **Certification Base:** Qingyuan base
- **Scope of certificate :**

Mixing, extruding and pelletization of recycled polyethylene (PE) materials to form polyethylene (PE) resins to be used for general merchandise and personal care application

Grade Achieved: A

·BRCGS packaging Materials, the first product to be recognized by the Global Food Safety Initiative (GFSI), is now in its 6th edition and has become a global industry benchmark.

·The BRCGS Global Packaging and Packaging Materials Standard helps packaging organizations provide safe and appropriate packaging and packaging materials in accordance with the appropriate hygiene standards for food and non-food applications.

·Seventy percent of the world's top 10 retailers accept or only accept BRCGS certification. More than 50% of the top 25 global manufacturers accept or only accept BRCGS certification; Sixty percent of the world's top 10 fast food brands accept or only accept BRCGS certification. Therefore, achieving BRCGS certification will be the key to developing a global business.

CERTIFICATION—ISCC


intertek
Total Quality. Assured.

ISCC PLUS Certificate

Certificate Number: ISCC-PLUS-Cert-ID218-20240212

PT Intertek Utama Services
Graha Iskandarsyah 4th floor. Jl. Iskandarsyah Raya, Jakarta Selatan No. 66 C, 12160, Jakarta, Indonesia

certifies that

Kingfa Environmental SCI.&TECH.CO. , LTD.
No.38 Delong Road, Shijiao Town, Qingyuan City, 511545, Guangdong Province, China

complies with the requirements of the certification system
ISCC PLUS
(International Sustainability and Carbon Certification)

Place of the audit
(if different from the legal address of the system user as stated above; only applicable for traders and tradewith storage)
n.a.

This certificate is valid from 13.06.2024 to 12.06.2025.

The site of the system user is certified as:
Converter

The scope of the certificate includes the following chain of custody options:
(not applicable for paper trades)
Mass Balance

Jakarta, 13.06.2024
Place and date of issue

Signature of issuing party

The issuing Certification Body is responsible for the accuracy of this document.
Version / Date: 2 / 18.06.2024

Page 1 of 2

- **Certification body**
  Kingfa Environmental
- **Inspection body**
  Intertek group
- **Time of first certification**
  2023-5-5
- **Certification Base**
  Qingyuan base
- **Scope of certificate**
  Mass balance

ISCC- The key standard for certification systems

- Ecological sustainability
- Social sustainability
- GHG Emission detection
- Supply chain supervision

·International Sustainability Carbon Certification (ISCC), which is the implementation of social and ecological sustainability standards, Traceability of supply chains and a globally applicable certification system for the calculation and reduction of greenhouse gas carbon emissions. The certification system originated in Germany and has now developed into an internationally recognized system, and is also a highly recognized and influential project in the European Union.

·Starting with the raw material stage, each production stage must be certified and eventually end with the final seller in a business-to-business transaction. Separate records need to be kept for sustainable, non-sustainable or fossil feedstock mixes.

CERTIFICATION—OK RECYCLED (EN 15343)


CERTIFICATE

TÜV AUSTRIA

OK recycled - Recycled Plastic Content

TÜV Austria Iberia – Inspection and Certification Services, S. L., accreditation holder N.º 221/GPR453, certify:

KINGFA ENVIRONMENTAL SCI.&TECH.CO., LTD
NO.38, Delong Industrial Avenue, Shijiao Town,
Qingcheng District, Qingyuan City,
Guangdong Province,
China

complies with the requirements of the OK recycled Certification Scheme (Reference Documents: Part I - Certification Protocol; Part II - Certification Requirements; UNE-EN 15343:2008*) for the products and other sites mentioned in the Annex to this certificate.

Registration certificate N.º: 86153432401 9 Valid until: 01/10/2025
First certification: 02/10/2024
Recommended date for carrying out the recertification audit: 02/08/2025

This certification has been conducted in accordance with the audit and certification procedures of TÜV Austria Iberia – Inspección and certificación services S.L. (TÜV Austria Group), and is subject to recertification audits.

TÜV Austria Iberia – Inspection and Certification Services S.L.
Calle Acanto, 22, 3ª Planta,
28045 Madrid
CIF B81258931

Madrid, 02/10/2024

Ana Vega
Authorized Signatory of
Certification Body

ENAC

Each page of this Certificate is valid only if it is accompanied by the rest of the pages of the certification.
* This standard is the official version, in Spanish, of the European Standard EN 15343:2007

Página 1 de 2
Mod.201-O.(ENI)

ZERTIFIKAT | CERTIFICATE | CERTIFICAT | CERTIFICADO | CERTYFIKAAT | 证书 | 認證

- **Certification body:** Kingfa Environmental
- **Inspection body:** TUV AUSTRIA
- **Time of first certification:** 2024-10-2
- **Certification Base:** Qingyuan base
- **Scope of certificate :**
  PCR content of polyethylene material is 100%

Certification reference standard

UNE EN 15343:2008

OK Recycled certification specifies the requirements for calculating the recycling content of the product and the related requirements for quality management. The certification is based on the requirements of the provisions of the circular economy regulation of the European Union, the use of quality balance method for control and traceability, in accordance with the "step forward, step back" approach, can trace the input to the supplier. Help products enter the EU market and avoid tax pressure on plastic products.

COMPANY PROFILE OF KINGFA SCI. & TECH. CO., LTD.

Founded in 1993, Kingfa Sci. & Tech. Co., Ltd. is an advanced material enterprise focusing on the R&D, production, sales and service of advanced high-performance chemical materials, and providing advanced material solutions for creating a safer, more comfortable and more convenient life. Kingfa is committed to solving the increasingly severe environmental problems, actively responding to the challenges brought about by the changes in the global environment, and promoting the continuous improvement of living environment by balancing economic, environmental and social relations to achieve sustainable development and create a better life.

Based in Guangzhou Science City, Kingfa has established 60 subsidiaries across the world, and founded R&D and production bases in overseas regions including South Asia, North America, and Europe. The products of Kingfa mainly rely on independent innovation and development, covering eight categories with independent intellectual property rights including modified plastics, eco-friendly high-performance recycled plastics, fully biodegradable plastics, specialty engineering plastics, carbon fiber and composite materials, light hydrocarbon and hydrogen energy, polypropylene resin, styrene resins, medical and healthcare polymer materials, which are widely used in various industries including automobiles, household appliances, electrical and electronic components, communications, new infrastructure, new energy, modern agriculture, modern logistics, rail transit, aerospace, high-end equipment, medical and healthcare industries, establishing strategic partnership with numerous well-known enterprises around the world.

At present, Kingfa is one of the companies with the most complete product categories in global advanced chemical material industry. Kingfa is the largest modified plastics production company in the Asia-Pacific region with the most complete product range. For complete biodegradable plastics, specialty engineering plastics, carbon fiber and composite materials, Kingfa's technology and product quality has reached the international advanced level. Currently, the company has developed advanced polymer materials as its core business. It has also established collaborative innovation, production, service, and application processes with upstream and downstream industrial chain to formed four major business segments of modified plastics, advanced materials, green petrochemicals, and medical and health polymer materials. Relying on the international marketing service network, excellent operation system and collaborative innovation across the industrial chain, Kingfa will continue to invest in technological innovation to ensure the high-quality development.

Products are the foundation of market competition. In order to ensure the continuous innovation of products, with the R&D concept of "independent innovation, leading technology, and product superiority", relying on the support of National Recognized Enterprise Technology Center, National Engineering Laboratory, State Key Laboratory, and National Industrial Innovation Center, Kingfa has established the strategic "13551" R&D system, gradually forming a R&D platform driven by technology research, industry research, and product research.

Kingfa continued to invest about 4.0% of its revenue in research and development. In 2023, Kingfa R&D expenses reached 1.973 billion yuan. The company adheres to the concept of "common endeavor, common growth, and common prosperity", and continues to innovate and improve the talent incentive mechanism to adapt to different stages of enterprise development. The value sharing concept has attracted a large number of outstanding talents. At present, the R&D team consists of 167 engineers with Ph.D. degree and 1130 engineers with master degree, and has independently trained 2 key candidates for academicians of the Chinese Academy of Engineering and Chinese Academy of Engineering in Guangdong Province and 6 experts with special allowance from the State Council.

Kingfa has accumulatively applied for 6036 domestic and foreign patents in total, including 4394 invention patents, 761 utility models, 35 appearance designs, 552 PCT patents and 294 foreign patents. The company has won 4 national scientific and technological progress second prizes, 15 scientific and technological progress awards at provincial and ministerial level, and 19 China Patent Awards (Excellent Award).

Kingfa adheres to the strategic thinking of " Strengthen the middle, Consolidate both ends, Innovation-oriented, Leap-forward development", and strives to build a world-class R&D, marketing, manufacturing, and information platform to become a global leader in advanced materials, providing support for national strategic materials.

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