Nachweise: Recyclingfähige Kunststofftöpfe

Zertifikate unserer Topfhersteller

Für einen Teil unserer Pflanzen nutzen wir Kunststofftöpfe verschiedener Hersteller, deren Recyclingfähigkeit von unabhängigen Stellen geprüft und bestätigt wurde. Die folgenden Seiten enthalten die vollständigen Zertifikate. Die Bestätigung gilt jeweils für die im Zertifikat genannten Topfserien und Farben.

Übersicht

Hersteller	Topfserie	Nachweis / Prüfstelle	Gültig bis	Seite
OSKO GmbH	Pflanztöpfe aus PIR Post-Industrial-Rezyklat, 13 Farben	Zertifikat Recyclingfähigkeit 100 % cyclos-HTP Institut, Nr. 2068-2019-001114-W4	28.02.2027	2
OSKO GmbH	Pflanztöpfe aus PCR Post-Consumer-Rezyklat, 13 Farben	Zertifikat Recyclingfähigkeit 100 % cyclos-HTP Institut, Nr. 2068-2019-001115-W4	28.02.2027	6
Desch Plantpak	Serie „Recover“ aus PCR Spritzguss, 10 Farben	Zertifikat Recyclingfähigkeit 100 % cyclos-HTP Institut, Nr. 2085-2020-001332-W4	31.07.2027	10
HAWITA-technoplant	Pflanztopf	„Made for Recycling“, Grading A (19/20) Interzero / bifa Umweltinstitut, Nr. 2909	24.10.2028	14
Kuma II B.V.	Blumentöpfe und Container (PP)	Covenant „100 % recyclable“ Kiwa Nederland, Nr. K104801/02	laufend[1]	15
Kreuwel Plastics	Blumentöpfe und Container (PP/PE)	Covenant „100 % recyclable“ Kiwa Nederland, Nr. K103199/02	laufend[1]	21

[1] **Hinweis:** Die Kiwa-Covenants haben kein festes Ablaufdatum und werden durch regelmäßige Audits aufrechterhalten. Die aktuelle Gültigkeit lässt sich bei Kiwa (www.kiwa.nl) prüfen. Stand dieser Übersicht: November 2026.

ZERTIFIKAT

zur Recyclingfähigkeit einer Verpackungsgruppe

OSKO GmbH
Winkelstraße 31
48607 Ochtrup | Deutschland

Dem Unternehmen wird die Recyclingfähigkeit folgender Verpackungsgruppe bescheinigt:

Bezeichnung

Pflanztöpfe aus PIR (gemäß Artikelliste im Anhang)

Prüfergebnis

Zulässig in Sorte/Spezifikation:	**Polypropylen, z.B. Fraktions-Nr. 324 (DE)** **Mischpolyolefine, Fraktions-Nr. 323 (DE)** **Mischkunststoffe, z.B. Fraktions-Nr. 350 - 352 (DE)**
Bemessung über Pfad:	**Pfad 3: Polypropylen**
Rezyklat (Endprodukt):	**PP-Regranulat**

Prüfstandard:

- ☒ **CHI-Assessment-Katalog** zur EU-weiten Zertifizierung

Innerhalb der Zertifizierung wurde ferner die Konformität zu folgenden Standards geprüft:

- ☒ **Mindeststandard für die Bemessung der Recyclingfähigkeit** der ZSVR (Stand 28.08.2025)
- ☒ **EN 13430** bzgl. stofflicher Verwertbarkeit in der Nachgebrauchsphase
- ☒ **ISO 14021**; s. Anhang zum Zertifikat

Ergebnis des Assessments:

Recyclingfähigkeit = 100 %

Nach Prüfung ergibt sich für die Verpackungsgruppe eine potenzielle Rezyklatausbeute von 100 %.

Dieses Zertifikat (Nr. 2068-2019-001114-W4) ist gültig bis **28.02.2027** (1 Jahr nach Ausstellung). Das Zertifikat verliert seine Gültigkeit bei qualitativer oder quantitativer Änderung der Verpackungskomponenten oder der Dekoration.

Aachen, den 26.02.2026



Dr. Joachim Christiani
Von der Industrie- und Handelskammer öffentlich bestellter und vereidigter Sachverständiger für Verpackungsentsorgung
Zuständig: IHK Aachen
Die Detailergebnisse sind im dazugehörigen Prüfbericht Nr. 2068-2019-001114-W2 dokumentiert.

CHI | cyclos-HTP Institut

Institut cyclos-HTP GmbH
Pascalstraße 15 - 52076 Aachen
Tel.: +49 (0) 2408 14569-0

ANHANG

zum Zertifikat Nr. 2068-2019-001114-W4

Information zur umweltbezogenen Anbietererklärung nach ISO 14021

Nach Maßgabe der Verfügbarkeit einer Recyclinginfrastruktur sind die Erfordernisse für eine Auslobung der Recyclingfähigkeit nach ISO 14021 für folgende Länder erfüllt:

Belgien (BE), Deutschland (DE), Frankreich (FR), Italien (IT), Luxemburg (LU), Niederlande (NL), Norwegen (NO), Österreich (AT), Schweden (SE), Vereinigtes Königreich (UK)

For the following countries, recycling infrastructure is being developed for the tested packaging; there are currently no reliable findings on the degree of implementation.

Dänemark (DK)

Liste der zugehörigen Artikel

- **Blau 004**
- **Gelb 001**
- **Gelb 004**
- **Grün 002**
- **Grün 003**
- **Grün 004**
- **Grün 005**
- **Mint 001**
- **Orange 001**
- **Pink 002**
- **Rosa 001**
- **Rot 001**
- **Violett 002**

Dokumentenhistorie

2068-2019-001114-W3 Zertifikat Pflanzentöpfe PIR (Datum: 17.11.2023 | Gültigkeit: 30.11.2025)

- Verlängerung des Zertifikats basierend auf unverändertem Prüfbericht Nr. 2068-2019-001114-W2 um zwei Jahre
- Aktualisierung des Geltungsbereichs

2068-2019-001114-W4 Zertifikat Pflanzentöpfe PIR (Datum: 26.02.2026 | Gültigkeit: 27.02.2027)

- Verlängerung des Zertifikats auf Basis des unveränderten Prüfberichts Nr. 2068-2019-001114-W2

ZERTIFIKAT

zur Recyclingfähigkeit einer Verpackungsgruppe

OSKO GmbH
Winkelstraße 31
48607 Ochtrup | Deutschland

Dem Unternehmen wird die Recyclingfähigkeit folgender Verpackungsgruppe bescheinigt:

Bezeichnung

Pflanztöpfe aus PCR (gemäß Artikelliste im Anhang)

Prüfergebnis

Zulässig in Sorte/Spezifikation:	**Polypropylen, z.B. Fraktions-Nr. 324 (DE)** **Mischpolyolefine, Fraktions-Nr. 323 (DE)** **Mischkunststoffe, z.B. Fraktions-Nr. 350 - 352 (DE)**
Bemessung über Pfad:	**Pfad 3: Polypropylen**
Rezyklat (Endprodukt):	**PP-Regranulat**

Prüfstandard:

- ☒ **CHI-Assessment-Katalog** zur EU-weiten Zertifizierung

Innerhalb der Zertifizierung wurde ferner die Konformität zu folgenden Standards geprüft:

- ☒ **Mindeststandard für die Bemessung der Recyclingfähigkeit** der ZSVR (Stand 28.08.2025)
- ☒ **EN 13430** bzgl. stofflicher Verwertbarkeit in der Nachgebrauchsphase
- ☒ **ISO 14021**; s. Anhang zum Zertifikat

Ergebnis des Assessments:

Recyclingfähigkeit = 100 %

Nach Prüfung ergibt sich für die Verpackungsgruppe eine potenzielle Rezyklatausbeute von 100 %.

Dieses Zertifikat (Nr. 2068-2019-001115-W4) ist gültig bis **28.02.2027** (1 Jahr nach Ausstellung). Das Zertifikat verliert seine Gültigkeit bei qualitativer oder quantitativer Änderung der Verpackungskomponenten oder der Dekoration.

Aachen, den 26.02.2026



Dr. Joachim Christiani
Von der Industrie- und Handelskammer öffentlich bestellter und vereidigter Sachverständiger für Verpackungsentsorgung
Zuständig: IHK Aachen
Die Detailergebnisse sind im dazugehörigen Prüfbericht Nr. 2068-2019-001115-W2 dokumentiert.

CHI | cyclos-HTP Institut

Institut cyclos-HTP GmbH
Pascalstraße 15 - 52076 Aachen
Tel.: +49 (0) 2408 14569-0

ANHANG

zum Zertifikat Nr. 2068-2019-001115-W4

Information zur umweltbezogenen Anbietererklärung nach ISO 14021

Nach Maßgabe der Verfügbarkeit einer Recyclinginfrastruktur sind die Erfordernisse für eine Auslobung der Recyclingfähigkeit nach ISO 14021 für folgende Länder erfüllt:

Belgien (BE), Deutschland (DE), Frankreich (FR), Italien (IT), Luxemburg (LU), Niederlande (NL), Norwegen (NO), Österreich (AT), Schweden (SE), Vereinigtes Königreich (UK)

For the following countries, recycling infrastructure is being developed for the tested packaging; there are currently no reliable findings on the degree of implementation.

Dänemark (DK)

Liste der zugehörigen Artikel

- Anthrazit 005
- Blau 002
- Braun 006
- Grau 004
- Grau 005
- Grau 006
- Grün 001
- Grün 015
- Rot 006
- Terracotta 005
- Terracotta 006
- Violett 006
- Weiß 004

Dokumentenhistorie

2068-2019-001115-W3 Zertifikat Pflanzentöpfe PCR (Datum: 17.11.2023 | Gültigkeit: 31.10.2025)

- Verlängerung des Zertifikats basierend auf unverändertem Prüfbericht Nr. 2068-2019-001115-W2 um zwei Jahre
- Aktualisierung des Geltungsbereichs

2068-2019-001115-W4 Zertifikat Pflanzentöpfe PCR (Datum: 26.02.2026 | Gültigkeit: 28.02.2027)

- Verlängerung des Zertifikats auf Basis des unveränderten Prüfberichts Nr. 2068-2019-001115-W2

CERTIFICATE

Recyclability of Packaging Group

Desch Plantpak
Altenaweg 12
5145 PC Waalwijk | Netherlands

The company receives the certification of recyclability for the following packaging group:

Designation

Product series PP injection moulded plant pots "Recover" from PCR:

Numbers and colours according to the list in the annex

Test result

Permitted in sort/specification:	**Polypropylene, e.g. Fraction No. 324 (DE)** **Mixed Polyolefins, Fraction No. 323 (DE)** **Mixed Plastics, e.g. Fraction No. 350 - 352 (DE)**
Assessment via path:	**Path 3: Polypropylene**
Recyclate (final product):	**PP regranulate**

Test standard:

- ☒ **CHI assessment catalogue** for EU-wide certification

Within the certification process, conformity with the following standards was also checked:

- ☒ **Minimum standard for determining the recyclability of packaging** of the ZSVR (state 28/08/2025)
- ☒ **EN 13430** with regard to material recyclability in the post-use phase
- ☒ **ISO 14021**; see annex

Result of the assessment:

Recyclability = 100 %

In accordance with the test results the potential recyclate yield of the packaging group amounts to 100 %.

This certificate (No. 2085-2020-001332-W4) is valid until **31/07/2027** (1 year upon issue). This certificate will lose validity in case of qualitative or quantitative changes of packaging components or decoration.

Aachen, dated 01/07/2026



Dr. Joachim Christiani
Publicly appointed and sworn expert for packaging disposal
Competent authority:
Chamber of Industry and Commerce, Aachen
The detailed results are documented in the corresponding test report No. 2085-2020-001332-W1-R1.

CHI | cyclos-HTP Institute

Institut cyclos-HTP GmbH
Pascalstrasse 15 - 52076 Aachen
phone: +49 (0) 2408 - 14569-0

ANNEX

to Certificate No. 2085-2020-001332-W4

Information on self-declared environmental claims according to ISO 14021:

Depending on the availability of a recycling infrastructure the requirements for a recyclability claim in accordance with ISO 14021 are fulfilled for the following countries:

Austria (AT), Belgium (BE), France (FR), Germany (DE), Italy (IT), Luxembourg (LU), Netherlands (NL), Norway (NO), Sweden (SE), United Kingdom (UK)

For the following countries, recycling infrastructure is being developed for the tested packaging; there are currently no reliable findings on the degree of implementation, or the potential according to the state of the art is not being exploited:

Denmark (DK)

List of related articles

Numbers and colours of the plant pots:

- 910 Post Consumer puur
- 912 Otter Grey
- 913 Cocos Brown
- 914 Funky Purple
- 915 Sparrow Brown
- 916 Burgundy
- 917 Purple Rain
- 918 Red Violet
- 919 Velvet Terracotta
- 920 Forest Green
- 921 Silver Blue
- 922 Steel Blue
- 923 Pomelo Olive
- 924 Yellow Green
- 925 Hunter Green
- 926 Palm Green
- 927 Pastel Turquoise
- 928 Grafiet Grijs
- 929 Lightbrown
- 930 Green
- 931 Epla Blaugrau
- 932 Silver Moss
- 933 Pine Green
- 934 Macchiato
- 936 Taupe
- 937 Atlantic Green

Document history

2085-2020-001332-W2 Certificate Injected plant pots PCR (date: 19/06/2023 | validity: 30/06/2025)

- Re-certification based on the unchanged test report no. 2085-2020-001332-W1-R1

2085-2020-001332-W3 Certificate Injected plant pots PCR (date: 19/08/2025 | validity: 31/08/2026)

- Re-certification based on the unchanged test report no. 2085-2020-001332-W1-R1

2085-2020-001332-W3-R1 Certificate Injected plant pots PCR (date: 10/12/2025 | validity: 31/08/2026)

- Extension of the group certificate with the plant pot E937 (colour: Atlantic Green) and based on the unchanged test report 2085-2020-001332-W1-R1

2085-2020-001332-W4 Certificate Injected plant pots PCR (date: 01/07/2026 | validity: 31/07/2027)

- Re-certification based on the unchanged test report no. 2085-2020-001332-W1-R1
- Extension of the group certificate to include the plant pot in colour 936 and updating of the designations

interzero®
zero waste solutions

Zertifikat

Made for Recycling

HAWITA-technoplant Kunststofftechnik GmbH

Hiermit bestätigen wir die Recyclingfähigkeit der folgenden Verpackung:
Pflanztopf

Prüfergebnis

Sehr gut

19 von 20 Punkte

Internationale Betrachtung

Prüfergebnis der Recyclingfähigkeit für:	**DE,AT,IT,FR,BE,NL**
Prüfergebnis durch Recyclinginfrastruktur reduziert für:	

Recyclinginfrastruktur

Für Recycling verfügbarer Masseanteil der Verpackung:	**100%**
Durch diese Bewertung vorgesehener Verwertungsstrom:	**PP, formstabil**
Recyclability Grading	**A**

Prüfstandard

Kriterien- und Bewertungsmethodik der bifa Umweltinstitut GmbH, geprüft durch das Fraunhofer-Institut für Verfahrenstechnik und Verpackung (IVV), Stand: 01.09.2025

Prüfung basiert auf den Kriterien an die stoffliche Verwertbarkeit nach:	DIN EN 13430 Mindeststandard der ZSVR

Dieses Zertifikat 2909 basiert auf die vorangegangene Verpackungsanalyse mit der Nummer 2455 und ist gültig bis zum 24.10.2028 (zwei Jahre nach Ausstellung). Das Zertifikat verliert seine Gültigkeit nach jeder Veränderung der Verpackungskomponenten.

Köln, den 26.10.2026

Durchführung und Bewertung durch
Interzero Recycling Alliance GmbH

interzero®
zero waste solutions

Frank Kurrat
Managing Director
Interzero Recycling Alliance GmbH

Bewertungsmethodik entwickelt durch
bifa Umweltinstitut GmbH

bifa Umweltinstitut

Prof. Dr. Nadine Warkotsch
Managing Director
bifa Umweltinstitut GmbH

COVENANT

Covenant
K104801/02

Issued *2021-08-01*

Replaces *K104801-01*

100% recyclable flower pots and containers

STATEMENT BY KIWA

With this Covenant, in accordance with the Kiwa Regulations for Product Certification, Kiwa declares that there is legitimate confidence that the products supplied by

Kuma II B.V.

that are specified in this covenant and marked with the Kiwa® certification mark, comply on delivery with the Kiwa Covenant handbook K15013, dated January 2016
and with the German Packaging Act (Verpack G) especially § 21 of this Act referring to the 'minimum standard'.

Ron Scheepers
Kiwa

Publication of the certificate is allowed.
advice: consult www.kiwa.nl in order to ensure that this certificate is valid.

5611170522

Kiwa Nederland B.V.
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Fax 088 998 44 20
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www. kiwa.nl

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Tel. +31 (0)418 652 344
Fax. +31 (0)418 652 084
sales@kumaplastics.nl
www.kumaplastics.nl

100 % recyclable flower pots and containers

Preface

This Covenant has been prepared by the Technical Committee for recyclable flower pots and containers of Kiwa Nederland B.V. and accepted by the Kiwa Committee for Covenants (KCC). The KCC also supervises the certification activities and where necessary requires the Kiwa Covenant to be revised.

This Kiwa Covenant will be used by Kiwa in conjunction with the Kiwa-Regulations for Certification. This regulation details the method employed by Kiwa for conducting the necessary investigations prior to issuing the Covenant and the method of external control. The inspection frequency is determined by the above mentioned Technical Committee and Kiwa Committee of the Covenant.

Scope of the Covenant

1.1 Definition of the product

The products are intended for use as flower pots and containers in which flowers or other plants are cultivated and displayed. After disposal the products are recoverable through plastic recycling facilities.

1.2 Objective

This covenant covers the testing and check of an approved fabrication process producing flower pots and containers that are recyclable.

1.3 Terminology related to the product

Master batch:	Additives including colours to enhance the properties of plastics.
NIR detectable:	State of the art sorting equipment using Near Infra Red sorting methods for plastics from waste streams, as in use worldwide, is not able to sort black and (dark) coloured plastics due to a (low) percentage of carbon black for colourization. Using master batches and polypropylene containing no or a non-detectable permillage carbon black, the sorting equipment is able to detect the type of polymer (plastic). The plastic can be recovered fully.
Polypropylene	(PP), also known as polypropene, a thermoplastic polymer, a very well reusable thermoplastic used in a wide variety of applications.
Regranulate	Pellets made from regrind through an extrusion process.
Regrind	Small particles made from shredded and cleaned material recovered from a pre- and/or post-consumer waste stream..

2 Fitness for detection and possibility to sort

2.1 Meaning of detection and possibility to sort

The fitness for detection and possibility to sort of the product means that the product has the properties that ensure that among others the following aspects when properly designed and manufactured, complies with the requirements of this Kiwa Covenant and is suitable for recycling;

- material (PP);
- Near Infra Red characteristic;
- weight of the product;
- density of the product;
- size of the product;
- homogeneity of the product.

In that sense that after use and being disposed of through a proper waste collection system it can be recovered and recycled fully.

2.2 Determining the fitness for recycling

The relevant properties of the products in relation to ‘fitness for recycling’’ and the verification methods used for this purpose are displayed in Chapter 3 and include the results of the actual verification.

3 Relevant product attributes, the requisite verification method and the assessment of the 'fitness for recycling'

3.1 Use of materials

The flower pots and containers are made of the following materials:

Material	origin
polypropylene	regranulate or regrind – (semi-)transparent or colored
additive	color additive – (not containing carbon black)

The used polypropylene and additives are purchased on the basis of a specification; the types and quantities are checked on arrival.

3.2 Product attributes

Attribute	Assessment method
NIR-sortable	Material control by NIR-detector
carbon Black Absence	Specification (additive) supplier
PP **Density** **Homogeneity**	- Material control by NIR-detector - float test
size	Specification by producer
weight	Specification by producer
Appearance	The final product is visually checked on completeness and color according internal specification.
Firmness	The product is tested according: manual compressed half way its height. The percentage of the compression is laid down in the Internal Quality Schedule depending on manufacturers specification (as wall thickness and material flexibility). The product may not show fractions or tears.

3.3 Product types applicable

The products to which this covenant applies are characterized by the base material polypropylene with a colour additive, both (nearly) free of carbon black. Examples of products (colours) that fall under this covenant are::

The product / material specification is laid down into the Internal Quality Schedule of Kuma.

Common sorting lines for household waste are aligned for optimal sorting of waste plastics with a size of at least 5 cm and maximal 5 l. For this reason parts smaller and larger may be designated as not sortable.

3.4 Certification Mark

After concluding a Kiwa certification agreement, the certified material or process is indelibly presented with the logo below, on the product and, if not possible, in any case on the packaging / delivery documents.

kiwa
covenant
100 PER CENT
RECYCLABLE FLOWER
POTS AND CONTAINERS

4 Initial inspection and continuous monitoring by Kiwa

Initial Inspection:

During a series of initial inspections, the suppliers and Kuma are audited to confirm the origin and content of the materials of which the products are made of.

Continuous inspection:

Regular audits are carried out twice a year, where the origin and content of the products are checked during production.

Aspect	Location	Assessment method
source incoming materials	Kuma	verification of traceability (records) received deliveries
quality incoming materials	Kuma	Verification of quality records received materials
items according 3.2	Kuma	witness of testing (see 3.2) and verification of quality registration

5 General

5.1 General conditions of use and disposal

In order to maintain suitability for recycling, the following is applicable:

- no use of envelopes as a result of which the product is no longer detectable as PP;
- the product should be disposed un-attached to products or other materials.
- Avoid application of non-soluables, including glued labels of which the label and / or the adhesive is not soluable.
- the product may be disposed part of a mixed material waste stream since (parts of) the flower pot are detectable by state of the art sorting equipment.

5.2 Tips for the customer

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the products show no visible defects as a result of transport etc.

If you decide not to accept the product on the basis of the above inspection, please contact:

- Kuma II B.V.

And, if necessary:

- Kiwa Nederland B.V.

For information about storing, transporting, using and disposing the product properly, see the certificate-holder’s instructions.

6 Reference

Standard [1)]	Title
NEN-EN-ISO14021	Environmental labels and declarations — Self-declared environmental claims (Type II environmental labelling), 2016
Directive 2008/98/EC	Waste Framework Directive, 2008
NEN-EN ISO/IEC 17020	Conformity assessment - General criteria for the operation of various types of bodies performing inspection, 2012
NEN-EN ISO/IEC 17065	Conformity assessment - Requirements for bodies certifying products, processes and services, 2012
Kiwa K15013	Kiwa Covenant for products and processes, 2018
German Packaging Act	(Verpack G), 2019

[1)] The documents, in whole or in part, are normatively referenced in this document. For dated references, only the edition cited applies. For undated references, the latest edition of the reference document (including any amendments) applies.

COVENANT

Covenant
K103199/02

Issued *2021-02-01*

Replaces -

100% recyclable flower pots and containers

STATEMENT BY KIWA

With this Covenant, in accordance with the Kiwa Regulations for Product Certification, Kiwa declares that there is legitimate confidence that the products supplied by

Kreuwel Plastics Almelo B.V.

that are specified in this covenant and marked with the Kiwa® certification mark, comply on delivery with the Kiwa Covenant handbook K15013, dated January 2016
and with the German Packaging Act (Verpack G) especially § 21 of this Act referring to the 'minimum standard'.



Ron Scheepers
Kiwa

Publication of the certificate is allowed.
advice: consult www.kiwa.nl in order to ensure that this certificate is valid.

5611170522

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info@kiwa.nl
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Supplier
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Fax. +31 (0)546 826160
info@kreuwel.com
www.kreuwel.com

100% recyclable flower pots and containers

Preface

This Covenant has been prepared by the Technical Committee for recyclable flower pots and containers of Kiwa Nederland B.V. and accepted by the Kiwa Committee for Covenants (KCC). The KCC also supervises the certification activities and where necessary requires the Kiwa Covenant to be revised.

This Kiwa Covenant will be used by Kiwa in conjunction with the Kiwa-Regulations for Certification. This regulation details the method employed by Kiwa for conducting the necessary investigations prior to issuing the Covenant and the method of external control. The inspection frequency is determined by the above mentioned Technical Committee and Kiwa Committee of the Covenant.

1 Scope of the Covenant

1.1 Definition of the product

The recyclable products (or material mixes) as specified in 3.3 can be recycled after being used.

The products are intended for use as flower pots and containers in which flowers or other plants are cultivated and displayed. After disposal the products are recoverable through plastic recycling facilities.

1.2 Objective

This covenant covers the testing of an approved fabrication process producing flower pots and containers that are recyclable.

1.3 Terminology related to the product

Master batch:	Additives including colours to enhance the properties of plastics.
NIR detectable:	State of the art sorting equipment using Near Infra Red sorting methods for plastics from waste streams, as in use world wide, is not able to sort black and (dark) coloured plastics due to a (low) percentage of carbon black for colourization. Using master batches and polypropylene containing no or a non-detectable permillage carbon black, the sorting equipment is able to detect the type of polymer (plastic). The plastic can be recovered fully.
Polyethylene	(PE), also known as polyethene, a thermoplastic polymer, a very well reusable thermoplastic used in a wide variety of applications.
Polypropylene	(PP), also known as polypropene, a thermoplastic polymer, a very well reusable thermoplastic used in a wide variety of applications.
Regrind	Shredded and cleaned material recovered from a waste stream as pre and post consumer material.
Off-grade	Material, out of specification, disposed of during production.

2 Fitness for detection and possibility to sort

2.1 Meaning of detection and possibility to sort

The fitness for detection and possibility to sort of the product means that the product has the properties that ensure that among others the following aspects when properly designed and manufactured, complies with the requirements of this Kiwa Covenant and is suitable for recycling;

- material (PP, PE);
- Near Infra Red characteristic;
- weight of product;
- size of product;
- printing on product or sticker.

In that sense that after use and being disposed of through a proper waste collection system it can be recovered and recycled fully.

2.2 Determining the fitness for detection and possibility to sort

The relevant properties of the products in relation to ‘fitness for detection and possibility to sort / select’ and the verification methods used for this purpose are displayed in Chapter 3 and include the results of the actual verification.

3 Relevant product attributes, the requisite verification method and the assessment of the fitness for detection and possibility to sort

3.1 Use of materials

The flower pots and containers are made of the following materials:

Material	origin
polypropylene and polyethylene	off-grade – (semi-)transparent
	regrind – (semi-)transparent or light colored
color additive	master batch – no carbon black

The used polypropylene, polyethylene and additives are purchased on the basis of a specification; the types and quantities are checked on arrival.

3.2 Product attributes

Attribute	Assessment method
NIR-sortable	Material source verification through supplier audits
	Material control by NIR-detector
carbon Black Absence	Recipe check (master batch) through supplier audit
size	Specification by producer
weight	Specification by producer
compression set	The pot is compressed manually half way its height till a certain percentage. The percentage of the compression is laid down in the Internal Quality Schedule depending on manufacturers specification (as wall thickness and material flexibility). The product may not show fractions or tears.
floating test	Of the polyolefin recyclate (flakes) at least 100 gram is put in a can of water to check floating. Polyolefin plastics must remain floating.

3.3 Product types applicable

Below list contains the colour codes for the products that fulfil the requirements of this Covenant:

KPA-02 Terracotta
KPA-04 White
KPA-05 Antracite
KPA-06 R-Grijs
KPA-07 Silver
KPA-08 E-Grey
KPA-09 Red
KPA-11 Bordeaux
KPA-13 Aubergine
KPA-14 Forever & Ever
KPA-15 Orange
KPA-17 Fuchsia
KPA-19 Pink
KPA-21 Lilac
KPA-23 Yellow
KPA-25 Gold
KPA-27 Dark Green
KPA-29 Lime Green
KPA-31 Light Blue
KPA-33 Dark Blue
KPA-35 Night Blue
KPA-40 Taupe
KPA-42 Bruin

KPA-69 CYG Paars
KPA-70 CYG Groen
KPA-71 CYG Roze
KPA-72 CYG Blauw
KPA-73 CYG Oranje
KPA-73 CYG Oranje
KPA-74 CYG Rood
KPA-75 CYG Goud
KPA-78 L-Geel
KPA-80 Magical blauw
KPA-81 Magical groen
KPA-82 Charming paars
KPA-83 Lovely
KPA-84 Farmers Favourite blue
KPA-85 Rich and Sprankling
KPA-86 Beige
KPA-87 Diamond groen
KPA-88 Wildkamp blauw
KPA-89 Sunware groen
KPA-91 P-Geel
KPA-92 ES Blauw
KPA-94 GOG Groen
KPA-95 C Groen

4 Initial inspection and continuous monitoring by Kiwa

Initial Inspection:

During a series of initial inspections, the suppliers and Kreuwel are audited to confirm the origin and content of the materials of which the products are made of.

Continuous inspection:

Regular audits are carried out once a year, where the origin and content of the products are checked during production.

material	Assessment method
Supplier audits	Verification of continuity of business (licenses)
of shredded material / granulate	Verification of quality system
of masterbatch	Verification of specifications
	Verification of traceability system
	Verification of deliveries to Kreuwel
Kreuwel Plastics	Verification of incoming materials compared to supplier
	Verification of process
	Testing of materials with NIR-scanner.

5 General

5.1 General conditions for disposing

To maintain recyclability:

- the product should be disposed un-attached to products of other materials.
- the product may be disposed part of a mixed material waste stream since (parts of) the flower pot are detectable by state of the art sorting equipment.

5.2 Tips for the customer

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the products show no visible defects as a result of transport etc.

If you decide not to accept the product on the basis of the above inspection, please contact:

- Kreuwel Plastics Almelo B.V.

And, if necessary:

- Kiwa Nederland B.V.

For information about storing, transporting, using and disposing the product properly, see the certificate-holder's instructions.

6 Reference

Document		Version
EN-ISO 14021	Environmental labels and declarations — Self-declared environmental claims (Type II environmental labelling)	2016