



## Covenant K103199/01

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### Near Infra Red sortable 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

Ronald Karel  
Kiwa

*Publication of the certificate is allowed.*

*advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is valid.*

COVENANT

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## NIR-sortable flower pots and containers

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# 1 Scope of the Covenant

## 1.1 Definition of the product

The Near Infra Red-sortable products consist of products made from polypropylene or polyethylene and additives containing no or undetectable traces of carbon black.

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 check of an approved fabrication process producing flower pots and containers that are NIR-detectable for recyclability.

## 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 / select'

## 2.1 Meaning of 'detection and possibility to sort / select'

The 'fitness for detection and possibility to sort / select' of the product means that the product has the properties that ensure that the Near Infra Red-sortable products, when properly designed and manufactured, complies with the requirements of this Kiwa Covenant and is suitable for recycling; 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 / select'

The relevant properties of the NIR detectable Near Infra Red-sortable 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.

## NIR-sortable flower pots and containers

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

#### 3.1 Use of materials

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

Material	origin
<b>polypropylene and polyethylene</b>	off-grade – (semi-)transparent
	regrind – (semi-)transparent or light colored
<b>color additive</b>	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
<b>NIR-sortable</b>	Material source verification through supplier audits
	Material control by NIR-detector
<b>Carbon Black Absence</b>	Recipe check (master batch) through supplier audit

#### 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-80 Magical blauw
KPA-04 White	KPA-81 Magical groen
KPA-05 Antracite	KPA-82 Charming paars
KPA-06 R-Grijs	KPA-83 Lovely
KPA-07 Silver	KPA-84 Farmers Favourite blue
KPA-08 E-Grey	KPA-85 Rich and Sprankling
KPA-09 Red	KPA-86 Beige
KPA-11 Bordeaux	KPA-87 Diamond groen
KPA-13 Aubergine	KPA-88 Wildkamp blauw
KPA-14 Forever & Ever	KPA-89 Sunware groen
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	

NIR-sortable flower pots and containers

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## 4 Initial inspection and continuous monitoring by Kiwa

**Initial Inspection:**

During a series of initial inspections, the suppliers and Kreuvel 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
<b>Supplier audits</b>	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 Kreuvel
<b>Kreuvel Plastics</b>	Verification of incoming materials compared to supplier
	Verification of process
	Testing of materials with NIR-scanner.

NIR-sortable flower pots and containers

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## 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