KOMO. Kwaliteit zoals beloofd.

KOMO®
ASSESSMENT DIRECTIVE
FOR PRODUCT CERTIFICATE FOR
GARBAGE BAGS

Approved by the Expert committee garbage bags on dd. 06-03-2020

Approved by the KOMO- Quality and Review Committee dd. 19-02-2020

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GENERAL INFORMATION ACCOMPANYING THIS PUBLICATION

This KOMO Assessment Directive (AD) has been drawn up by the joint Board of Experts (BoE)on Garbage Bags, in which interested parties in the field of this AD are represented. This BoE also supervises the implementation of the certification on the basis of this AD and adjusts it if necessary. Where reference is made in this AD to the 'Board of Experts' or BoE, this refers to the above-mentioned Board.

This AD will be used by certification bodies, which have a licence agreement for this purpose with the KOMO Foundation, in conjunction with their established procedures for certification. This AD lays down the requirements which an applicant for or holder of a KOMO product certificate must meet and the way in which the certification body assesses this. The working method used by the certification body in the implementation of its certification procedures has been laid down:
- The investigation for the granting and extension of a KOMO product certificate on the basis of this AD;
- The periodical assessments for the purpose of maintaining a KOMO product certificate issued on the basis of this AD;
- The periodical assessments for the purpose of maintaining a KOMO product certificate issued on the basis of this AD.

Changes compared to the previous version:
- Reference to current standards;
- Further specification of use of recycled material;
- Adaptation of packaging.

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1 INTRODUCTION

The KOMO® certified garbage bags is made of at least 80% recycled post-consumer material. This post-consumer material can be divided into three streams:

1. Industrial (plastic garbage from industry)
2. Commercial (plastic garbage from retail)
3. Household (plastic garbage from households)

Each garbage stream has its own specific characteristics, with the post-consumer material from the household stream generally having the lowest quality. In spite of this, the Board of Experts has set itself the objective to evaluate the percentage of household post-consumer material in the KOMO® certified garbage bag annually and to allow this to gradually increase, whereby the strict quality requirements will continue to be met.

1.1 General

The requirements for certification laid down in this AD are used by the certification bodies which have been accredited for this subject by the Council for Accreditation or which have submitted an application for this and which have a licence agreement with the KOMO® Foundation for this purpose, when processing an application for or maintaining a KOMO® Product Certificate for "Garbage bags".

On the basis of the regulations in this AD a product certificate is issued for garbage bags. With this product certificate the certificate holder can demonstrate to his client/producer that an expert independent organisation supervises the production process of the certificate holder, the quality of the product and the quality assurance thereof. As a result, it may be assumed that the product complies with the quality requirements set out in this AD.

In addition to the requirements laid down in this AD, the certification bodies lay down additional requirements, in the sense of general procedure requirements for certification, as laid down in the general certification regulations of the body concerned.

1.2 Subject matter and scope

The present AD and the product certificate relate to garbage bags intended to be used for the collection and disposal of garbage, including household garbage as well as the packaging of the garbage bags by users. The garbage bags can be closed with a closing strip.

It concerns garbage bags with dimensions 520 x 650 mm (also referred to as ‘kleintje KOMO®') as well as garbage bags with dimensions 600 x 800 mm. The garbage bags are packed in a paper band.

Both garbage bags with dimensions 520 x 650 mm and garbage bags with dimensions 600 x 800 mm can be provided with longitudinal welds. Only garbage bags with dimensions 520 x 650 mm can be fitted with a side fold.

The AD describes the requirements for the manufacture, performance and inspection of garbage bags.

The test methods are explicitly mentioned or indicated by a reference to an annex, standard or other designated document.

1.3 Validity

This assessment directive replaces AD 9901 dated 27-09-2012 and its amendment dated 29-02-2016. Based on this version, new product certificates may be issued at the latest 3 months before the current product certificates have to be replaced. Product certificates based on the previous version must be replaced before 19-02-2021.

The period of validity of the product certificate is unlimited. The validity period may be limited (terminated) by:
- an amendment to this AD;
- failure of the certificate holder to fulfil his obligations.

In case (temporarily) no production is carried out, in case of a stop longer than 12 months, the validity can be (temporarily) suspended at the request of the certificate holder. A suspension of validity may be granted by the certification body for a maximum period of one year. A suspension may be extended by the certification body on condition that the total duration of the suspension does not exceed two years. However, in the case of a suspension period longer than one year, an additional periodical assessment shall be carried out before the production processes commence to determine whether the product certificate can be retained.
In case of a suspension longer than two years, the certification body will have to withdraw the product certificate.

1.4 Relationship with the European Construction Products Regulation (CPR, EU 305/2011)

Products as mentioned in this AD are not covered by a harmonized European standard.

1.5 Requirements for conformity assessment bodies

With regard to the requirements set out in this AD, the applicant may submit, as part of external assessment, reports from conformity assessment bodies to demonstrate compliance with the requirements of this AD. It will have to be demonstrated that these reports have been drawn up by a body which meets the relevant accreditation standard applicable for the subject in question:

- NEN-EN-ISO/IEC 17020 for inspection bodies
- NEN-EN-ISO/IEC 17021-1 for certification bodies certifying management systems
- NEN-EN-ISO/IEC 17025 for laboratories
- NEN-EN-ISO/IEC 17065 for certification bodies certifying products .

A body is deemed to comply with these criteria when an accreditation certificate for the subject in question can be presented, issued by the Council for Accreditation (RvA) or another accreditation body accepted as a member of a multilateral agreement on mutual recognition and acceptance of accreditation, drawn up within EA, IAF and ILAC; these agreements are referred to as EA-MLA, IAF-MLA and ILAC-MRA respectively. If no accreditation certificate can be submitted, the certification body itself will assess whether the accreditation criteria have been met.

1.6 KOMO® Product certificate

KOMO® product certificates are issued on the basis of this assessment guideline. The statements in these product certificates are based on chapter 4 of this AD.

On the website of the KOMO® Foundation (www.komo.nl) the model product certificate is stated which is applicable for this AD. The product certificates to be issued must correspond with this.

1.7 Labelling

The garbage bags and packaging supplied under certificate must be legibly provided with the information as described in sections 4.11 and 4.12.

After the KOMO ®product certificate has been issued, the KOMO certificate holder may also use this KOMO logo in his public statements with regard to his KOMO-certified products.

2 TERMS AND DEFINITIONS

For terms related to certification and CE marking, please refer to the website of the KOMO Foundation (www.komo.nl) and the regulations of the certification body.

VOC
Volatile Organic Compound. These are organic compounds having a vapour pressure of 0,01 kPa or more at 293,15 K, or having a corresponding volatility under the particular conditions of use.

LDPE
Low density polyethylene

Regranulate
Recycled plastic

Post-consumer material
Material generated by end users of products that have fulfilled their application (from: NEN-EN 15343).

Post-industrial of pre-consumer material
Material arising from a garbage stream in a production process.

'Witness' investigation
An investigation carried out under the supervision of a certification body at the location of the company and/or external laboratory to be certified with the calibrated equipment present on site, the results of which serve to substantiate the admission and/or assessment investigation.

PE
Polyethylene

CKA
Central address for complaints, the central address for complaints (CKA) is an independent party that registers complaints and forwards them to the relevant certificate holder. The CKA is not responsible for the handling of the complaint and only takes care of its registration.

Batch
Continuous production run of one week

3 ADMISSION AND PERIODIC ASSESSMENTS

For the purpose of granting the product certificate, the certification body carries out an initial inspection. After the product certificate has been issued, the certification body carries out external assessments.

3.1 Start of the admission

The applicant indicates which product(s) must be included in the product certificate to be issued and provides the substantiation for this.

The applicant provides all relevant data for the preparation of the 'technical specification' of the garbage bags as it will be included in the product certificate to be issued.
For the purpose of granting the product certificate, the certification body carries out an initial inspection. The certification body must establish that the applicant is able to guarantee the production process and the quality of the product on an ongoing basis, in such a way that the requirements laid down in this assessment directive are met.

3.2 Admission assessment for the KOMO® -product certificate

The admission assessment and the external assessments consist of assessing whether:
- The garbage bags produced by the applicant/certificate holder comply with the requirements set for them (see chapter 4) and with the technical specification as to be included/included in the product certificate.
- For sampling, the applicant shall supply sufficient material from one specific batch. The investigation on the properties from chapter 4 and the properties the producer wants to declare are carried out on this material.
- The inspection of the garbage bags by the applicant/certificate holder meets the requirements set for this (see chapter 5).
- The quality system of the applicant/certificate holder meets the requirements (see chapter 6).

Where applicable, it will be checked whether the documents provided with regard to the production process and/or internal quality control and the results stated therein meet the requirements of this assessment directive.

3.3 Periodic assessment

After the product certificate has been issued, assessments shall be carried out by the certification body as described in chapter 7 of this AD.

4 REQUIREMENTS FOR THE PRODUCT CHARACTERISTICS

This chapter sets out the requirements that all products must meet or information on which must be provided..

4.1 Raw materials for the garbage bags

The garbage bags consist of at least 80% post-consumer PE regranulate. The remaining 20% may consist of post-consumer or pre-consumer recycled PE material and lubricant, dye or similar products.

4.1.1 Method of determination

Assessment is based on internal and external evaluation of the recipe and the certificates of the supplier/producer of the raw materials. The supplier/producer of the regranulate must be able to demonstrate that it meets at least level 3 traceability according to EuCertPlast Audit Scheme 4.0.

4.1.2 Requirements

The garbage bags consist of at least 80% post-consumer PE regranulate

4.1.3 Admission assessment

It will be assessed whether the requirements are met.

4.1.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.2 Raw material for packaging (banderol)

The packaging around the rolls (banderol) is made of (recycled) paper of 98 ± 2 mm wide, in the colour yellow (Pantone 107 U).

Remark: For garbage bags produced on behalf of a municipality (government), the colour of the packaging is indicated by the municipality concerned.

4.2.1 Method of determination

Assessment is made on the basis of the technical data sheet of the supplier of the packaging (determination of the raw material banderol), a measurement with a ruler (banderol width) and a visual assessment (colour assessment).

4.2.2 Requirements

The packaging must be made of (recycled) paper and have a width of 98 ± 2 mm. The colour f the banderol is yellow (Pantone 107 U).

4.2.3 Admission assessment

It will be assessed whether the requirements are met.

4.2.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.3 Printing ink for the garbage bag

The ink to be used must be water-based. The VOC content of the ink is determined in accordance with NEN-EN-ISO 11890-1 in a sample of approximately 100 ml.

4.3.1 Method of determination

The ink to be used must be water-based. The VOC content of the ink is determined in accordance with NEN-EN-ISO 11890-1 in a sample of approximately 100 ml. The colour of the ink will be visually assessed.

4.3.2 Requirements

The VOC content of the ink will be less 125 g/liter. The ink used to print the garbage bags is yellow, corresponding to RAL 1016 or 1026.

4.3.3 Admission assessment

It will be assessed whether the requirements are met.

4.3.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.4 Film thickness

Thickness of the film used for the production of the garbage bags depends on the dimensions of the garbage bags.

4.4.1 Method of determination

The thickness of the film shall be measured according NEN-EN 13592:2017, section 7.2.3.2.

4.4.2 Requirements

Dimensions of the garbage bags	Thickness in µm		
	Nominal (N_t)	Minimal (N_t-x)	Average (N_t – 5%)
520 x 650 mm	40	31	38
600 x 800 mm	50	40	47,5

Clarification:
In accordance with NEN-EN 13592, section 7.1.3.2, none of the thicknesses measured, expressed in µm, shall be smaller than Nt - x, in which:
Nt = nominal thickness

both rounded in µm.

The mean value of the thickness measurements of each strip shall be at least Nt - 5%.

4.4.3 Admission assessment

It will be assessed whether the requirements are met.

4.4.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.5 Opacity and colour of the film

The film used for the production of the garbage bags is grey to black and not translucent.

Remark: For garbage bags produced on behalf of a municipality (government), the colour of the bag is indicated by the municipality concerned.

4.5.1 Method of determination

The opacity of the film is determined in accordance with NEN-EN 13592, section 7.2.4, the colour is assessed visually..

4.5.2 Requirements

Opacity of the garbage bags must be at least 60%, the colour of the bags is grey (RAL 7037) to black. .

4.5.3 Admission assessment

It will be assessed whether the requirements are met.

4.5.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.6 Closing strips

Closing strips intended to bind the garbage bag are made of metal with a plastic or paper coating.

4.6.1 Method of determination

The tensile strength of the closing strips shall be determined in accordance with NEN-EN 13592, section 7.2.7.1, the length of the closing strips shall be measured by means of a ruler..

4.6.2 Requirements

The tensile strength of the closing strips shall be ≥ 40 N, the length of the strips shall not be less than 200 mm..

4.6.3 Admission assessment

It will be assessed whether the requirements are met.

4.6.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.7 Dimensions of the garbage bag

KOMO® - certified garbage bags are available in sizes 60 x 80 cm and 52 x 65 cm.

4.7.1 Method of determination

The useful length and useful width shall be determined in accordance with NEN-EN 13592, section 7.2.2. For bags provided with a longitudinal weld, the size of the so-called beard or skirt is also determined.

4.7.2 Eisen

Dimensions of the garbage bag	Useful width in mm		Usefull length in mm	
	Minimal	Maximal	Minimal	Maximal
520 x 650 mm	520	535	640	660
600 x 800 mm	600	620	790	820

.

For bags fitted with a longitudinal seam, the size of the beard or skirt must not exceed 7 mm.

4.7.3 Admission assessment

It will be assessed whether the requirements are met.

4.7.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.8 Strength of the garbage bag

The garbage bag should have a minimum strength depending on it's size.

4.8.1 Method of determination

The strength of the garbage bag is determined by means of the drop test according to NEN-EN 13592, section 7.2.6. The following test loads are used:

- 520 x 650 mm: 6000 g;
- 600 x 800 mm: 10000 g

4.8.2 Requirements

At least 27 of the required number of test bags (30) must not allow any cracks to pass through a sphere of a given diameter. The spheres diameter applies to garbage bags with dimensions:

- 520 x 650 mm: d = 40 mm;
- 600 x 800 mm: d = 61 mm.

4.8.3 Admission assessment

It will be assessed whether the requirements are met.

4.8.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.9 Water tightness of the garbage bag

Garbage bags with a bottom seal must be assessed for water tightness.

4.9.1 Method of determination

The water tightness of the garbage bags is determined in accordance with NEN-EN 13592, section 7.2.5 and applies to garbage bags with a bottom seal. The test is only carried out with the prescribed amount of water and not with the mixture of water and sawdust as described in the standard.

4.9.2 Requirements

For the required number (five) of test bags, after five minutes of loading, the leakage must not exceed five droplets/bags for one minute.

4.9.3 Admission assessment

It will be assessed whether the requirements are met.

4.9.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.10 Mass of the garbage bag

The mass of the bag is determined on the basis of the roll weight of a roll of garbage bags..

4.10.1 Method of determination

The mass of a roll is determined by weighing three different rolls (without packaging and closing strips) with 10, 20 or 30 bags per roll depending on the sales unit.

4.10.2 Eisen

Dimensions garbage bag	Minimal mass of each roll at x bags per roll		
	10 bags	20 bags	30 bags
520 x 650 mm	180	360	540
600 x 800 mm	400	800	1200

4.10.3 Admission assessment

It will be assessed whether the requirements are met.

4.10.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.11 Printing of the garbage bag

The garbage bag must be printed at least once in its entirety. The size of the yellow print is at least 20 x 30 cm (h x w) and contains the information below:

- the text 'kleintje' (only in the case of kleintje KOMO);
- the text 'KOMO gecertificeerde afvalzak';
- the text ‘gemaakt van gebruikt plastic’;
- logo and the text ‘Glas in de glasbak’;
- the KOMO® logo (or its contours);
- name/address certificate holder, factory brand or code;
- logo and text ‘Papier apart’.

In addition, each garbage bag must be marked with:

- dimensions;
- production data in which the following can be traced: week no. - year - line no;
- standardized logo for recycling (where PE is mentioned);
- number of the product certificate;
- the central address for complaints: www.klachtenadresKOMOafvalzakken.nl
Klachtenadres KOMO afvalzakken
Antwoordnummer 191
6700 VB, Wageningen

These particulars shall be printed on the bag in accordance with Annex 1a (60 x 80 cm bags) or Annex 1b (52 x 65 cm bags). The position of the print shall be such that it remains readable when the bag is filled and closed.

Remark: For garbage bags produced on behalf of a municipality (government), the colour of the bag is indicated by the municipality concerned. Also specific elements may be added.

4.11.1 Method of determination

Visual assessment of the available information, dimensions are determined with a ruler.

4.11.2 Requirements

The information mentioned above must be printed at least once in its entirety on the bag, the size of the print must be at least 20 x 30 cm.

4.11.3 Admission assessment

It will be assessed whether the requirements are met.

4.11.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.12 Printing of the packaging

Printing must be done at least once per package and must be readable when the package is closed. In any case, the following information must be printed on the packaging in black (unless otherwise indicated):

- the KOMO® logo (or its contours);
- the text ‘gemaakt van gebruikt plastic’;
- the text 'kleintje' (in the colour RAL 3024, but only in the case of small KOMO);
- the text ‘KOMO gecertificeerde afvalzak’;
- name/address certificate holder, trade mark or code;
- number of the product certificate;
- the dimensions (in the case of small KOMO in the colour RAL 3024);
- the number of bags with closing strips;
- text 'KOMO® kwaliteit = gecontroleerde kwaliteit';
- the central address for complaints: www.klachtenadresKOMOafvalzakken.nl
  Klachtenadres KOMO afvalzakken
  Antwoordnummer 191
  6700 VB, Wageningen
- the text ‘kwaliteit gecontroleerd door …..’ (name certification body).

These particulars shall be printed on the packaging in accordance with Annex 2a (packaging for 60 x 80 cm bags) or Annex 2b (packaging for 52 x 65 cm bags).

Remark: For garbage bags produced on behalf of a municipality (government), the colour of the packaging is indicated by the municipality concerned. Also specific elements may be added.

4.12.1 Method of determination

Visual assessment of the information present.

4.12.2 Requirements

The information mentioned above must be printed at least once in its entirety on the packaging..

4.12.3 Admission assessment

It will be assessed whether the requirements are met.

4.12.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.13 Adhesion of the print

The adhesion of the print on the bag must be such that the print is still readable after loading.

4.13.1 Method of determination

Place the imprinted garbage bag stress-free on a flat surface. Apply the tape transversely to the direction of imprint over a length of approx. 100 mm and press it with your fingers so that an even translucent surface (without air bubbles) is obtained. Then slowly pull the tape off the foil. The tape to be applied is a translucent adhesive tape with a width of 50 mm and an adhesive strength of approx. 5 N/25 mm.

4.13.2 Eisen

The printing shall remain readable after the test has been carried out.

4.13.3 Admission assessment

It will be assessed whether the requirements are met.

4.13.4 KOMO® -product certificate

The KOMO® product certificate states whether the requirements laid down have been met.

4.14 Packaging

Packaging of the garbage bags and closing strips is done as follows:

- for the size 600 mm x 800 mm: a multiple of 10 pieces per roll;
- for 520 mm x 650 mm: a multiple of 10 pieces per roll.

With a view on reducing 'single use' plastic packaging material, 'action packaging' with multiple rolls wrapped in shrink film or other types of plastic packaging are not permitted. However, multiple bags can be produced per roll, as long as this concerns a multiple of 10 bags per roll.

4.14.1 Method of determination
The number of bags per roll shall be determined on the lightest roll from the determination of the mass of the bag as defined in 4.10.

4.14.2 Requirements
The roll of garbage bags should contain a multiple of 10 garbage bags.

4.14.3 Admission assessment
It will be assessed whether the requirements are met.

4.14.4 KOMO® -product certificate
The KOMO® product certificate states whether the requirements laid down have been met.

5 REQUIREMENTS FOR CHECKING THE GARBAGE BAGS

5.1 General

The manufacturer shall keep complete and up-to-date records of all applicable requirements of this AD.

5.2 Registration

All relevant data concerning the raw materials (receipt data, possible test results, analysis certificates, etc.) used for the production and the production process (including registration of process parameters) must be recorded in writing by the producer and be available to the certification body during the assessments and sampling.

5.3 Uniformity of the production process

The producer must demonstrate that the uniformity of the production process remains constant. In order to ensure this uniformity, each production batch should be sampled and tested for the properties listed in chapters 4.4 to 4.14.

The individual values must at least comply with the requirements of this assessment guideline and as laid down by the producer in the IQC.

When it is known or becomes known that changes have taken place in the production process, the producer is obliged to inform the certification-body accordingly. If, in the opinion of the certification body, the process has been modified to such an extent that changes in the product properties are to be expected, the properties must be demonstrated and recorded again.

6 REQUIREMENTS FOR THE CERTIFICATE HOLDER AND ITS INTERNAL QUALITY CONTROL

6.1 General

The management of the certificate holder is at all times responsible for the quality of the production process, the operability of the quality system, the internal quality control and the quality of the product. The internal quality control must meet the requirements laid down in this chapter.

6.2 Quality systems

The certificate holder must have a quality system that is tailored to the processes and scope as laid down in this assessment directive.
The quality system of the certificate holder shall be laid down in a quality manual containing at least the following elements:

- the handling of complaints;
- the procedure for incoming raw materials;
- the described working methods and instructions;
- the control of the final product;
- the procedures for handling non-conformities and follow-up of corrective actions;
- the internal quality control scheme (in accordance with section 6.3).

6.3 Internal quality management

The certificate holder must have an internal quality control (IQC) scheme applied by him in which at least the requirements of this chapter are included.
The certificate holder must at least demonstrably lay down the following in this scheme:

- which aspects are checked by the organisation of the certificate holder;
- according to which methods these checks are carried out and which equipment must be used for them;
- how often these checks are carried out;
- the way in which the results of the checks are recorded and kept;
- identification and traceability of deliveries;

The internal quality control should enable the certificate holder to continuously demonstrate compliance with the requirements of this AD.

6.4 Quality system management

Within the organizational structure, an official must be designated who is in charge of managing the quality system. This officer is also responsible for the functioning of the quality system. This officer shall report directly to the management on the functioning of the internal quality control system. To this end, this officer shall have appropriate powers.

6.5 Document management and registration

The certificate holder shall ensure that:

- The current versions of the quality documents are available to all employees who need them and where they are used. This also applies to product-specific manuals and instructions.
- The established procedures and instructions referred to in section 6.2 are regularly assessed and, where necessary, updated and implemented effectively on an ongoing basis.
- New and amended quality documents are authorised and released for use by a designated responsible person.
- The registrations made that are relevant to the demonstrability of the course of the production process controlled in accordance with this assessment directive and other norm-compliant actions, are correctly identified, legible and traceable.

The producer shall have a suitable and accessible registration of the inspections and tests carried out and shall keep it up to date in order to be able to demonstrate that the requirements set have been met. Where necessary, statistical techniques should be applied to the results of examinations.

6.6 Control of measurement equipment

Inspection, measuring and testing equipment shall be calibrated at least once a year, unless another period is specified by the manufacturer of the equipment. Records must be kept of this.
Calibration may be performed internally (calibrated reference measuring instruments) or externally (calibration operation).

6.7 Laboratory

In order to carry out laboratory work, one must have an equipped (separate) room and the required measuring and testing equipment at one's disposal. If an external laboratory is used, this shall be approved by the certification body.
Preferably, an external laboratory shall be accredited on the basis of NEN-EN-ISO/IEC 17025.

The samples used for inspection and testing shall be clearly identified. Any test sequence shall be recognizable.

A product file shall be kept of all products mentioned in the approval. The product file shall be authenticated by the certification body during the Admission assessment. This product file shall contain at least the following information:

- the product properties to be determined, the target values for these specifications and the maximum permissible deviation thereof, as well as the measured values.

6.8 Supplies

Raw materials, semi-finished products, etc., for which reference is made to another assessment directive, must meet the requirements of the relevant assessment directive. The goods received must be checked according to the quality system. A record must be kept of this.

6.9 Measures in the case of non-conforming products

If the results of the internal quality control show that certain products do not meet the set requirements, the following should take place:

- The product must be marked, not delivered and stored recognizably (separately).
- Check what the cause is and, if necessary, take corrective measures.
- It should be recorded which deviations have been found and which corrective or additional measures have been taken.

If the aforementioned non conformities only come to light when the product has already been delivered, the customer must also be informed about this and will be involved in the follow-up steps to be taken.
One should also have a procedure for handling these products and a recognizable (separate) storage.

6.10 Handling of complaints

The certificate holder must demonstrably have a complaints registration and the handling thereof with regard to the product to which the product certificate relates and its application. For each complaint, it must be indicated how the complaint has been analyzed and dealt with and, if necessary, followed by appropriate corrective actions.

Each complaint shall be classified in one of the following categories:

A. Bottom seal missing or not strong enough;
B. Side seal missing or not strong enough;
C. Tear resistance of the perforation between two bags of the roll is too high;
D. Foil is not strong enough;
E. Foil is perforated and has cracks or holes;
F. Dimensions (length/width) of the garbage bag are incorrect;
G. Number of bags per roll incorrect;
H. Printing/labels incomplete or not readable;
I. Opacity film is not good. Garbage bag is translucent;
J. Incorrect packaging;
K. Closing strips missing;
L. Other complaints.

Complaints about KOMO certified garbage bags are collected, registered and forwarded to the relevant certificate holder by the CKA. The certificate holder must enter into a contract with the CKA, after which the login details are sent so that the registered complaints can be viewed and dealt with in accordance with the internal complaints procedure of the certificate holder. Depending on the number of certificate holders, the CKA charges a fixed annual fee for the organization and a fixed amount per complaint for registration.
For additional information about the CKA, please contact SHR, P.O. Box 497, 6700 AL Wageningen, phone +31 (0)317 - 467 366.

6.11 Procedures and work instructions

The certificate holder must be able to submit procedures for:
- handling of complaints;
- control of incoming raw materials;
- working methods and instructions described;
- control of the final product;
- procedures for handling non-conformities and follow-up of corrective actions.
- checking the measuring equipment..

6.12 Sampling of the production location

For the purpose of testing, the required number of test bags shall be selected at random and distributed over the production period in accordance with NEN-EN 13592, Annex B. To this end, the producer shall, in consultation with the certification body, at least randomly sample two rolls of garbage bags per week per production line and keep/allow them for assessment.
If a certificate holder has his bags produced by another producer, who also produces KOMO® certified garbage bags, no 'production sampling' needs to be carried out in his warehouse. However, the production must be assessed at the production location, this can coincide with the regular assessment and sampling that is already carried out there, although a separate report must be drawn up. A certificate holder is obliged to report to his certification body if he has production carried out elsewhere.
To make it possible for the certification body to carry out a representative sampling during the assessment, sufficient samples should be available. The certificate holder should take this into account by taking extra samples in accordance with the schedule below, if he expects to produce only a limited number of batches (production runs of one week) in the coming quarter after the inspection has been carried out.

Number of batches expected to be produced in one quarter	Samples to be taken per batch
1	At least 2 samples per day, spread over the production lines and day. A total of at least 10 samples should be available during evaluation. Date and time of sampling will be recorded.
2	At least 1 sample per day, spread over the production lines and day. A total of at least 10 samples should be available during the assessment. Date and time of sampling will be recorded.
3	3 - 4 samples per batch spread over the production lines and week. A total of at least 10 samples should be available during the assessment. Date and time of sampling will be recorded.
4	2 - 3 samples per batch spread over the production lines and week. A total of at least 10 samples should be available during the assessment. Date and time of sampling will be recorded.
5 – 10	At least 2 samples per batch spread over the production lines and week. A total of at least 10 samples should be available during the assessment. Date and time of sampling will be recorded.

7 REQUIREMENTS FOR THE PERIODIC ASSESSMENT

7.1 General

The external assessment is recorded by the certification body in accordance with the requirements of the Board of Experts and the certification regulations of the certification body.

7.2 Nature and frequency of periodic assessment

The certification body assesses, (un)announced, four times a year whether the technical specification is continuously complied with, whether the production is in accordance with the specifications laid down by the producer and agreed upon with the certification body in chapter 4 and whether the producer's internal quality control system complies with the requirements laid down in chapter 6.
The certification body may decide to have the testing and assessment take place at the certificate holder's laboratory (Witness investigation).
The producer/certificate holder must cooperate in the work to be carried out by or on behalf of the certification body by granting access to the factory and, if requested, providing access to all relevant documents.
A written report will be drawn up of these assessments.
The Board of Experts may adjust the above frequency on the basis of arguments.

In general, the applicant's country must be safe for assessment visits by the certification body. In case of negative travel advice, the country will not be visited and therefore no assessment visits can be carried out. In that case the validity of the KOMO® product certificate is (temporarily) suspended.

7.3 Sampling at sales/distribution points

Twice a year a sample is taken from the market consisting of at least 10 rolls. These rolls are purchased from at least three different sales/distribution points.
If this is not possible, sampling takes place from the warehouse of the retailer concerned. Written feedback of the investigation takes place to the certificate holder.
If necessary, the Board of Experts may adjust the above frequencies. Examination and testing take place in the laboratory of the certificate holder in combination with the inspection visits and/or external laboratory.

7.4 Sanctioning policy

For an unambiguous procedure of the certification body with regard to the shortcomings found, the shortcomings have been divided into two categories.

Category I: the non-conformity/conformity does not directly lead to failure of the product, the consumer will not be directly affected by this.
Category II: the non-conformity/conformity leads to failure of the product, the probability that the consumer will be inconvenienced by this.

In the overview below, the different parts of the assessment, on location and in-store sampling, are listed, together with the category in which the non-conformity/conformity falls.

Description	Section of the AD	Cat. Non conformity	Explanation of deviation
Raw material of the garbage bag	4.1	Cat. I	
Raw material of the packaging	4.2	Cat. I	
Ink	4.3	Cat. I	
Thickness of the film	4.4	Cat. I, Cat. II	Cat. I: thickness does not comply, strength does Cat. II: thickness and strength do not comply
Opacity and colour of the film	4.5	Cat. I	
Closing strips	4.6	Cat. I, Cat. II	Cat. I: size does not comply Cat. II: closing strips missing
Dimensions of the garbage bag	4.7	Cat. I, Cat. II	Cat. I: deviation is ≤10% Cat. II: deviation is >10%
Strength of the garbage bag	4.8	Cat. II	

Continued table see next page

Follow-up table on sanctions policy

Description	**Section of the AD**	**Cat. Non conformity**	**Explanation of deviation**
Water tightness of the garbage bag	4.9	Cat. II	
Mass of the garbage bag	4.10	Cat. I, Cat. II	Cat. I: mass does not comply, strength does. Cat. II: mass and strength do not comply
Print on the garbage bag	4.11	Cat. I	
Print on the packaging	4.12	Cat. I	
Adhesion of the print	4.13	Cat. I	
Number of bags/ packaging	4.14	Cat. I, Cat II	Cat. I: to many bags per roll Cat. II: to little bags per roll
Quality control	6	Cat. I	
Inspection and testing	5	Cat. I, Cat. II	Cat. I: presence/content of procedures Cat. II: follow-up on procedures
Certification marks	1.7	Cat. I	

Sanctions in the event of non conformities

Deviations in Category I that are observed during an inspection visit/shop sampling should be rectified within 6 months. If the same deviation occurs again during a next visit/shop sampling, this will become a category II deviation.

Deviations in category II that are observed during an inspection visit/shop sampling must be repaired within 1 month. Depending on the nature and size, it may mean that an extra inspection is scheduled..

8 REQUIREMENTS FOR THE CERTIFICATION BODY

8.1 General

The certification body must have a procedure in place in which the general rules used for certification are laid down. In particular, these are:

- The general rules for carrying out the Admission assessment, to be distinguished according to:
  - The way in which producers are informed about the handling of an application;
  - The execution of the assessment;
  - The decision as a result of the investigation carried out.
- The general rules with regard to the performance of assessment and the assessment aspects used;
- The measures to be taken by the certification body in the event of shortcomings;
- The rules for the termination of a certificate;
- The possibility of lodging an appeal against decisions or measures taken by the certification body.

8.2 Certification personal

The personnel involved in the certification process can be distinguished by:

- Auditor: in charge of carrying out the external assessment;
- Admission assessor: charged with carrying out the Admission assessment and the assessment of the reports of auditor / laboratory technicians;
- Assessor: charged with the assessment of the pre-investigator and auditor and decisions to be taken regarding the need to take corrective measures;
- Decision-maker: in charge of taking decisions as a result of Admission assessments carried out, continuation of certification as a result of assessments carried out.

8.3 Qualifying requirements

Personnel involved in the certification process must be demonstrably qualified to carry out the necessary work. With regard to education, expertise/experience the following qualification requirements apply:

certification personal	Adjudication	Knowledge and expertise
Auditor Admission Assessor	Secondary vocational education	- Knowledge of the extrusion process - Training auditor ISO 9001 - Knowledge of foils
Assessor	Higher professional education	- Knowledge of the extrusion process - Training auditor ISO 9001 - Knowledge of foils - Minimum of 2 years experience at management level
Decision-maker	Higher professional education	- Management experience or equivalent - Certification or equivalent - Accreditation criteria or equivalent - Knowledge of relevant certification system

Certification personal must be demonstrably qualified by testing training and experience against the above requirements. If qualification takes place on the basis of different criteria, this must be recorded in writing. The competence with regard to qualification must be laid down in the quality process of the certification body.

8.4 Dossier admission and certification assessment

The results of the assessment and certification examination are recorded in a file by the certification body. The file must meet the following requirements:

- Completeness; the file makes a statement about all the requirements laid down in the assessment directive.
- Traceability; the findings on which statements are based must be recorded in a traceable manner.

The decision maker about the granting of the KOMO® Product Certificate must be able to base his decision on the findings laid down in the file..

8.5 Decision on the KOMO® Product certificate

The decision on the granting of the KOMO® Product certificate and/or the imposition of sanctions and/or the suspension or revocation thereof shall be taken by a qualified decision maker who was not himself involved in the certificate investigation. On the basis of the assessment the decision-maker shall decide

whether the KOMO® Product Certificate can be granted or whether additional information and/or investigations are required before the KOMO® Product Certificate can be granted. The decision must be traceable.

8.6 Reporting to the Board of Experts

The certification body reports at least annually on the certification activities carried out. This report must cover the following subjects:

- changes in the number of certificates (new/ expired);
- number of inspections carried out in relation to the established frequency;
- results of the inspections;
- results of the shop sampling;
- complaints analysis with regard to complaints about certified products.

9 LIST OF LISTED DOCUMENTS

NEN-EN-ISO 9001:2015	Quality management systems - Requirements
NEN-EN-ISO 11890-1:2007	Paints and varnishes - Determination of volatile organic compound (VOC) content - Part 1: Difference method
NEN-EN 13592:2017	Plastics sacks for household waste collection - Types, requirements and test methods.
NEN-EN 15343:2007	Plastics - Recycled Plastics - Plastics recycling traceability and assessment of conformity and recycled content.
NEN-EN-ISO/IEC 17020:	Conformity assessment - Requirements for the operation of various types of bodies performing inspection.
NEN-EN-ISO/IEC 17021-1:	Conformity assessment - Requirements for bodies providing audit and certification of management systems - Part 1: Requirements
NEN-EN-ISO/IEC 17025:	General requirements for the competence of testing and calibration laboratories
NEN-EN-ISOIEC 17065:	Conformity assessment - Requirements for bodies certifying products, processes and services.
EuCertPlast: 2019	Audit Scheme Version 4.0

APPENDIX 1A LAYOUT GARBAGE BAGS 60 X 80 CM



Batchnummer: @productie gegevens

Note: Additions, in addition to the text shown here, must also be in the same yellow colour.

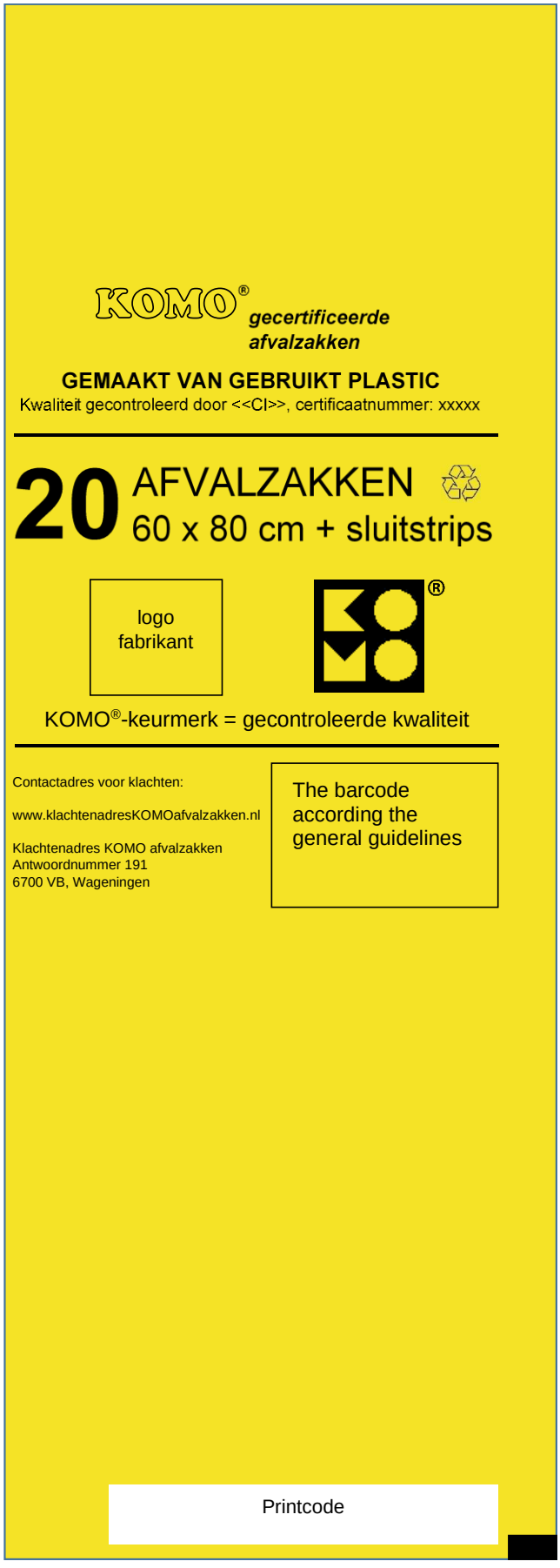
APPENDIX 1B LAYOUT GARBAGE BAGS 52 X 65 CM



Note: Additions, in addition to the text shown here, must also be in the same yellow colour.

APPENDIX 2A EXAMPLE LAYOUT PACKAGING 60 X 80 CM

Paper wrapping for garbage bags of 60x80 cm



Colour code bandroll: 245, 227, 38

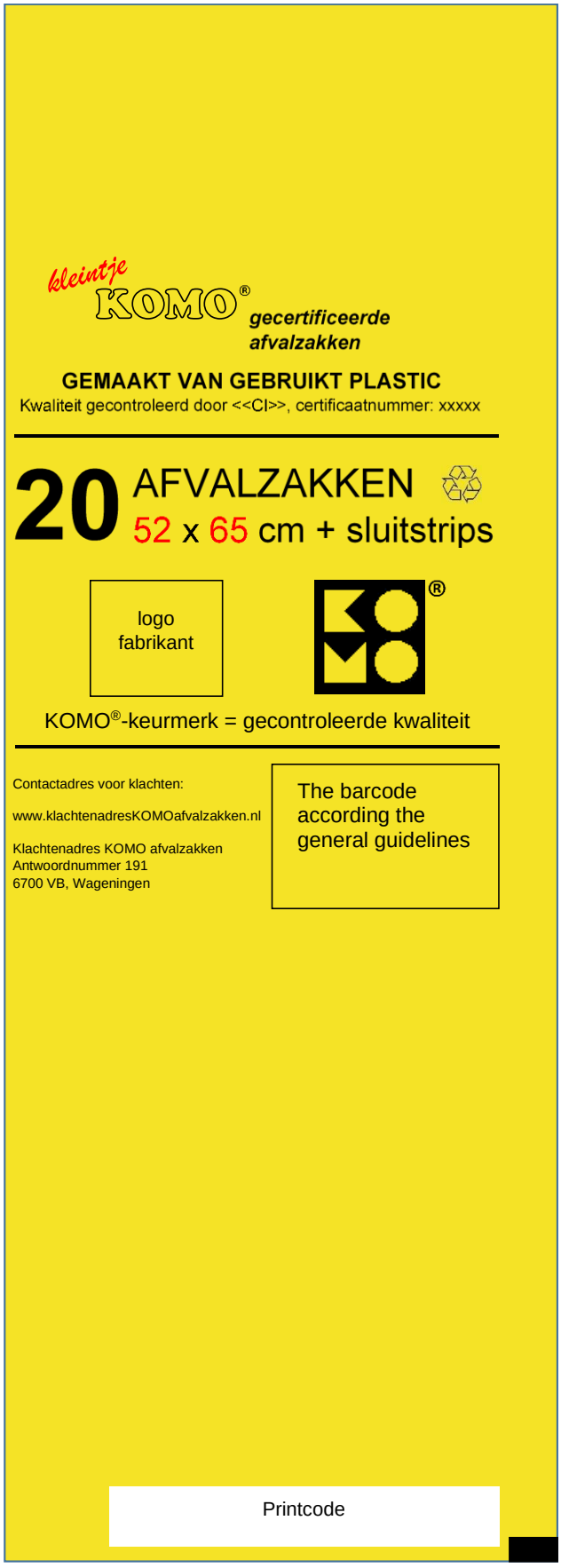
Font style KOMO: Cooper Black, no filling, solid line

Font style ®: Calibri light

Font style general: Arial

APPENDIX 2B EXAMPLE LAYOUT PACKAGING 52 X 65 CM (kleintje KOMO)

Paper wrapping of garbage bags of 52x65 'kleintje KOMO'



Colour code paper : 245, 227, 38
Font style KOMO: Cooper Black, no filling, solid line
Font style 'kleintje': Brush Script MT
Font style ®: Calibri light
Font style general: Arial