

# ecoloop.network

a mission to build trust and incentivise for the use of waste-based plastics

## modul 2

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## Contents

1. <u>Indroduction</u>	3
2. <u>Focus of certification in modul 2</u>	3
3. <u>Aspects of inspection</u>	4
a. Site Capacity	4
b. Equipment Capacity	4
c. Incoming Input Waste Plastic	4
d. Subcontracted Processing	4
e. Energy consumption	4
f. Water consumption	4
g. Input Volume reconciliation	5
h. Process inputs & outputs recorded	5
i. Mass balance calculation	5
j. Beneficial Output and Yield	5
k. Documented control of Recycling Process	5
l. Produced Recylates/Regrinds	5

## 1. Introduction

The aim is to promote and increase plastics recycling at a high level and the use of waste-based plastics.

**ecoloop** is a certification-program for plastic producers, recyclers as well as processors and manufacturers of plastic products.

This certification gives its customers the assurance that their products make a contribution to the circular economy through the use of waste-based plastics. All companies that have their products certified supported the network to increase the need and demand for waste-based plastics.

The certification system itself operates according to various standards: EN ISO 14021:2016, TÜV SÜD CMS 71, EuCertPlast and RAL UZ 30a and is a certification of products.

On a broad basis, ecoloop enables certification at various levels of the value chain, which documents the respective contribution to the circular economy and is intended to promote the use of waste-based plastics.

## 2. Focus of certification in modul 2

The criteria from module 2 generally apply to material recyclers that produce regranulates, regrind materials or agglomerates from the various plastic wastes. These form the starting material for a large number of products (or components) and thus the use of primary plastics can be reduced.

The raw materials are produced for the needs of the market in order to enable the manufacturers of products (or components) to substitute the use of primary plastics.

Additives can be added to the various products (regranulates, regrinds, agglomerates) to achieve specific properties. The share of plastic waste in total products (regranulates, regrinds, agglomerates) is expressed in absolute terms.



### 3. Aspects of inspection

In this area the production process itself and the associated process documentation are checked. In addition to the points relating to approval law, aspects with environmental effects are also checked. The following aspects are considered

#### a. Site Capacity

- Operating license;
- Equipment documents relating to capacity;
- Production records

#### b. Equipment Capacity

- Equipment documents relating to capacity;
- Production records.

#### c. Incoming Input Waste Plastic

- Incoming Input Waste Plastic for the past 12 months.

#### d. Subcontracted Processing

- Report on material (by type) sent to third parties for processing for the last 12 months.

#### e. Energy consumption

- Electricity bills for the last 12 months;
- Production records
- Average energy consumption per kg of Recycling Output produced over the last 12 months.

#### f. Water consumption

- Water bills for the last 12 months.
- Production records.
- Average water consumption per kg of Recycling Output produced over the last 12 months.

#### **g. Input Volume reconciliation**

- Confirm that:  
 $\sum \text{Equipment Capacity} + \sum \text{Subcontracted Recycling} \geq \text{Input Volume}$

#### **h. Process inputs & outputs recorded**

- Production records;
- Stock management system;
- Report detailing additives added into the Process;
- Waste disposal records;
- By-product records;
- Confirm sufficient records are kept of all inputs to the Recycling Process and outputs for the last 12 months.

#### **i. Mass balance calculation**

- As for 'Process inputs and outputs recorded' for the previous 12 months.
- Carry out a mass balance calculation for the Recycling Process.

#### **j. Beneficial Output and Yield<sup>1</sup>**

- Calculate the following for the Recycling Process:
- Beneficial output: % (Recycling Output / Input Waste Plastic)

#### **k. Documented control of Recycling Process**

- Inspect the production records to ensure they are sufficiently complete, detailed and accurate.

#### **l. Produced Recyclates/Regrinds**

- List of Products
- Composition for each product
- Datasheet for each product

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<sup>1</sup> Yield= % (Recycled Output of the targeted plastic / Input Waste Plastic)