

# BE SAFE. SAFE FOR THE CONSUMERS SAFE FOR THE ENVIRONMENT SAFE FOR THE BUSINESS

Ensuring the Quality, Safety and Environmental Credentials of your products has never been more important.



## Sustainability plays a key role in ensuring Consumer Confidence and, hence, Sales into these growing markets.

Sustainability of materials and articles that come in contact with food is now increasing in the top ranking of features that led the consumers' choices.

Consumers are increasingly aware of environmental impacts and companies have an opportunity to gain market share by addressing consumer concerns.



**The use of eco-compatible and compostable materials and articles are trends that cannot be stopped.**  
**More and more consumers demand environmental friendly products.**



**Packaging products** are turning into multimaterial-multilayer ones to satisfy the increasing needs for high performance, design, safety. They typically require additional coatings or other modifications to perform well as food containers, and that affects how well they decompose and create new challenges when it comes to compostability and recyclability of materials, and subsequently articles.

The presence on the market of **biodegradable and compostable biopolymers**, often made by renewable raw materials, is growing every day.

## How can the manufacturers of Food Contact Materials and Products ensure the safety of the Consumer and the Environment?

Ecol Studio supports you in developing your strategy for sustainability by assessing your products. Reliable information and test reports about compostability and recyclability of your products build up a solid base for communication to your customers and for design, research and development of your range of products.

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## ● Compostability test

Analysis certified by TÜV Austria to verify the compostability of packaging according to the European Standard EN 13432, that defines the characteristics that a material must have in order to decompose during an industrial composting process.

## Characterization

Chemical testing of the content of heavy metals, fluorine and volatile solids.

## Biodegradability

Capability to be converted into carbon dioxide by the same microorganisms of natural organic materials. Determined by measuring the actual metabolic conversion of the compostable material into carbon dioxide. The acceptance level is 90% to be reached in less than 6 months. The test is performed according to the EN ISO 14855-1:2012 standard..

## Disintegration

According to ISO 16929:2019 standard, the material under examination is biodegraded together with organic waste and maintained under test scale composting conditions for 12 weeks. After this period of time residues of test material larger than 2 mm are considered non-disintegrated. This fraction must be less than 10% of the initial mass.

## Ecotoxicity

It measures the germination and growth capability of plants on the resulting compost. By applying the OECD 208:2006 standard, this analysis is performed by sprouting two different kind of seeds on the sample compost and also on a control one. The sample must produce at least the 90% of the plant biomass compared to the control substrate, in the absence of negative effects on plants.

## ● Recyclability test

Determination of recyclability of cellulose-based materials and products according to the standard UNI 11743:2019.

The standard specifies a method to determine the laboratory-scale recyclability of cellulose-based materials and products, simulating the key process steps in preparing fibre for the modern papermachine.

**ASK FOR MORE!** Contact us for more details:



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