



ENVIRONMENTAL AND PRODUCT SAFETY DATA SHEET

Product

PLA/Cardboard boxes

Raw Material

Cardboard coated with water based eco barrier coating
PLA, Polylactic acid

Packaging

Inner: Polyethylene (PE)
Outer: Corrugated board box

Field Of Application

The products are intended for all kind of food stuff except alcoholic. The Cardboard part of the product can be used for hot and cold food up to 100°C and are usable for microwave. The PLA part needs to be removed when using microwave and can stand a temperature up to 40 °C.

EC Directive 94/62/EC on Packaging and Packaging Waste

The packaging complies with all essential requirements as defined by 94/62/EC.
For example minimum adequate amount of packaging, limitation of heavy metal content, recyclable through at least one of the following: reuse, material recovery, energy recovery or composting.

Environmental Aspects

Product

Cardboard is made out of tree, which is a renewable resource. The board is made from pulp bleached without any chlorine gas, ECF (Elemental Chlorine Free). The bleaching is carried out with oxygen, hydrogen and chlorine dioxide.
PLA is compostable, thermoplastic aliphatic polyester derived from renewable resources. Corn starch is the common feedstock.

Packaging

PE is a polymer produced from refined mineral oil or natural gas. The polymer consists simply of carbon and hydrogen. The corrugated board box is made from wood, which is a renewable resource.

Certificates & Labelling

The product is FSC® certified (Forest Stewardship Council), license number FSC-CO14985. FSC is an independent organization to promote responsible forestry.”

Product Safety

The product/raw materials fulfill the following:

- EC-directive 1935/2004 products and material intended to come into contact with food stuff
- The board fulfills BfR XXXVI, Bundesinstitut für Risikobewertung, Papiere, kartons und pappen für den Lebensmittelkontakt
- The PLA is tested for global migration of chemical substances into food according to EC-directive 2002/72/EC article 2 for 3% acetic acid, 50% ethanol and 95% ethanol for 10 days at 40°C.
- The total migration of chemical substances to food is below limit 10mg/dm²
- Duni manufacturing units are certified according to the international quality system ISO 9001 and 9002. They have also implemented or will implement the environmental management system ISO 14001.

Management Of Used Products

Energy Recovery

All the materials are suited for energy recovery. Complete combustion gives mainly rise to carbon dioxide and water. The energy content of plastics/paper is comparable to that of oil/ wood.

Recycling

Recycling of the plastic and the corrugated board is possible for producing new products. Check with the local recycling company.

Compostability

The PLA part is compostable in industrial facilities and complies with EN standard 13432:2000 for packaging recoverable through composting and biodegradation. Check with the local waste handling company.



Validity

This is a copy of a document 2010-03-17. It is normally updated every second year or when there is a change in the manufacturing process, in the product or in legislation. To make sure that you have the latest edition, contact Duni AB, Environmental Affairs.