Passion for packaging

IlipBio & FIBRAware manual

- ✓ RENEWABLE
- ✓ COMPOSTABLE*
- ✓ BIODEGRADABLE*

PRODUCTS

*UNI EN 13432:2002

TO GET THINGS STRAIGHT…

compostable or biodegradable ?

These two terms, often confused for synonyms, in fact have a substantial difference that must be known in order to avoid errors when making **separate waste collection**.

The difference lies in time. **A biodegradable element is in fact not automatically compostable**.
To clarify, let's start from the definition: **biodegradable** is defined as any material that can be broken down by bacteria, sunlight and other natural physical agents into simple chemical compounds such as water, carbon dioxide and methane. A process that involves a multitude of materials, and that can be of long degradation, depending on the material. However, the European norm EN 13432:2002 establishes that to be defined as biode-gradable, a product must decompose to 90% within **6 months**.

Instead, it is defined **compostable** (transformable into compost, a natural fertilizer) that material which is not only biodegradable but also disintegrating and whose decomposition process takes place in **less than 3 months**.

BIOBASED= made wholly or to a significant part from biomass, renewable (non-fossil) resource.
Just because a plastic product is biobased does not necessarily mean the product is biodegradable or compostable

TO GET THINGS STRAIGHT…

EN 13432

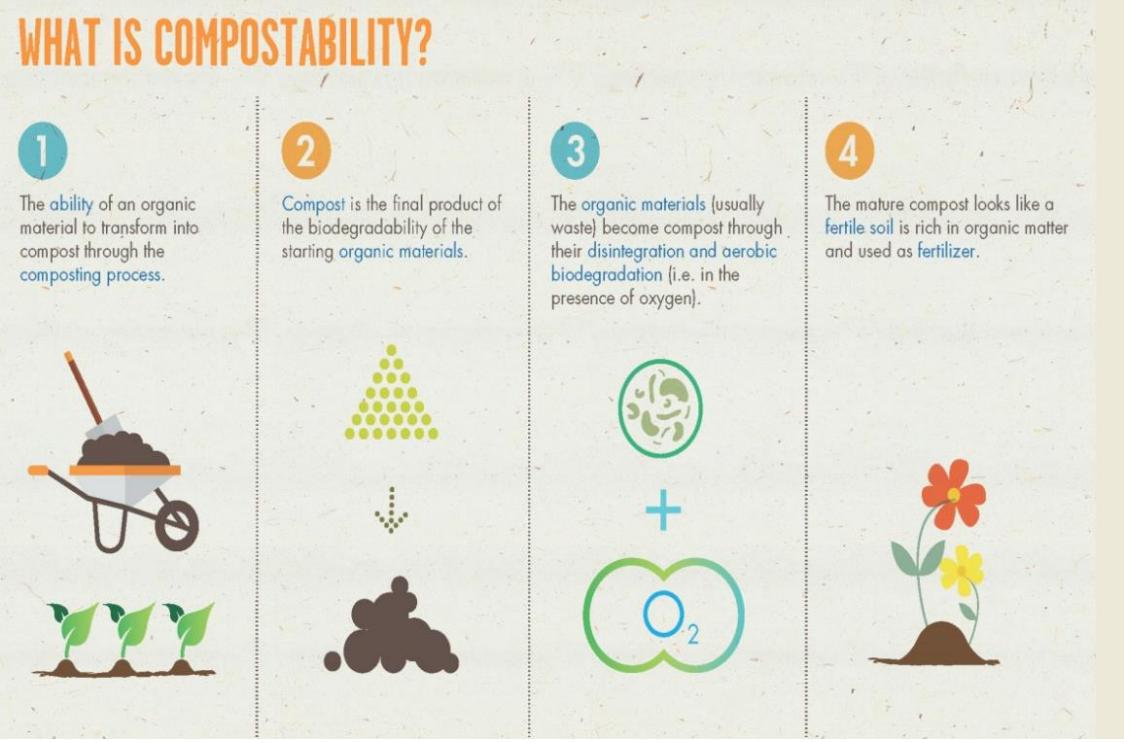
The European norm **EN 13432** is a harmonized standard of the European Standardization Committee relating to characteristics that a material must possess in order to be able to define itself biodegradable or compostable. The term "compostable" refers
to rules related to the non-toxicity of the decomposed material if dispersed in nature.
According to EN 13432, a **material to be defined as "compostable", must have the following characteristics:**

- degrade at least 90% in 6 months if subjected to an environment rich in carbon dioxide
- if in contact with organic materials for a period of 3 months, at least 90% of the mass of the material must be made up of fragments smaller than 2 mm
- the material must not have negative effects on the composting process
- low concentration of heavy metals added to the material
- pH values within the established limits
- saline content within the established limits
- concentration of volatile solids within the established limits
- concentration of nitrogen, phosphorus, magnesium and potassium within the established limits



TO SPECIFY…

COMPOSTABILITY’



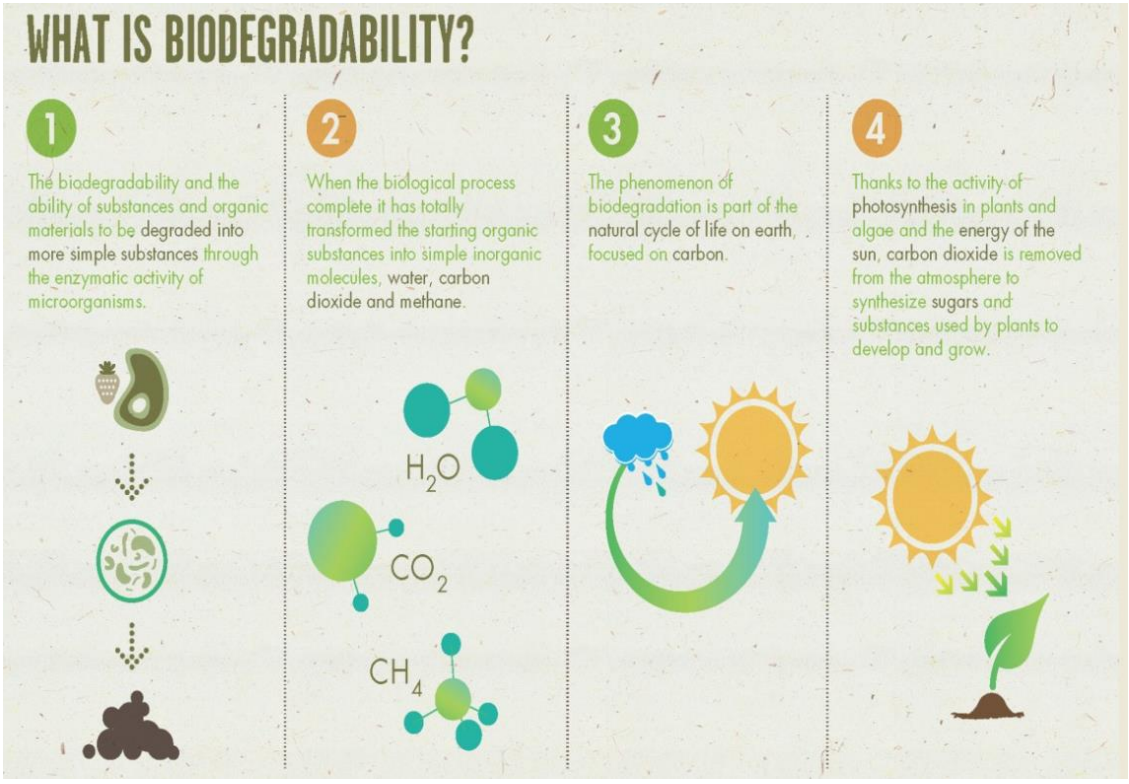
Source of chart WWW.MATERBI.COM

COMPOSTABLE

DECLARED **COMPOSTABLE PRODUCTS** SHOULD REPORT ON THE PACKAGE THE LOGO OF THE COMPOSTABILITY CERTIFICATION AND ITS LICENSE NUMBER.

TO SPECIFY…

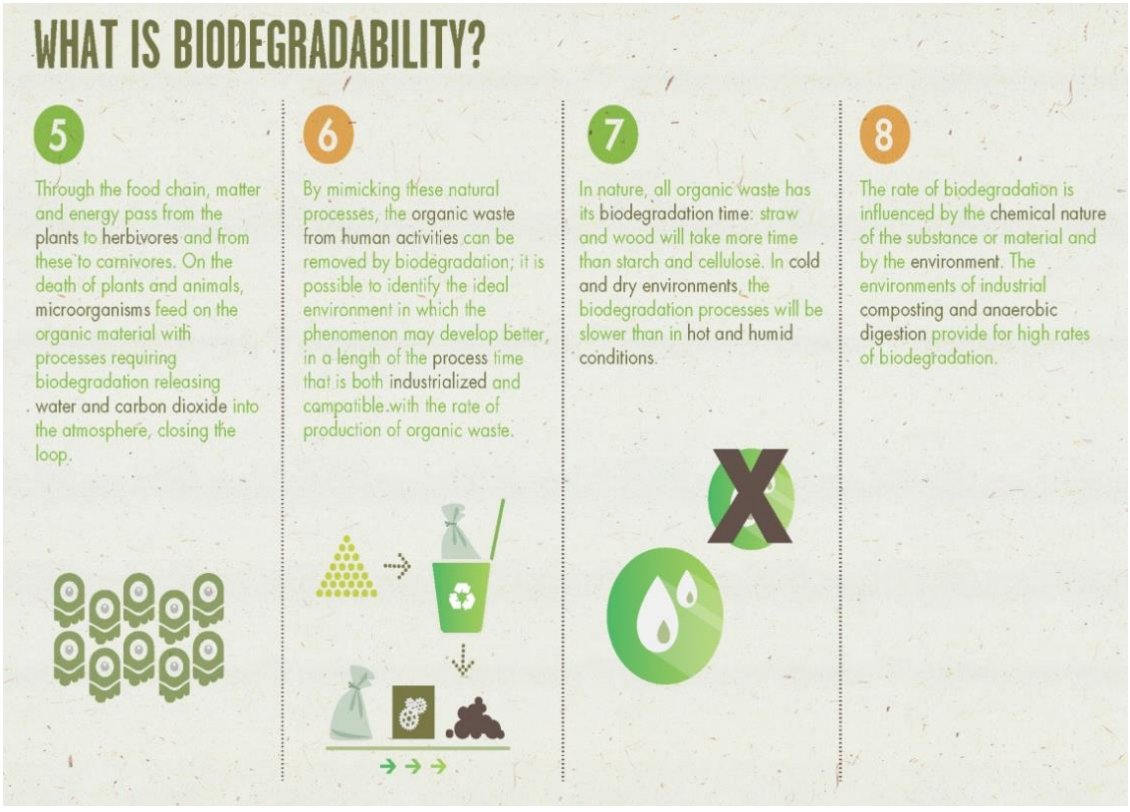
BIODEGRADABILITY



Source of chart WWW.MATERBI.COM

TO SPECIFY…

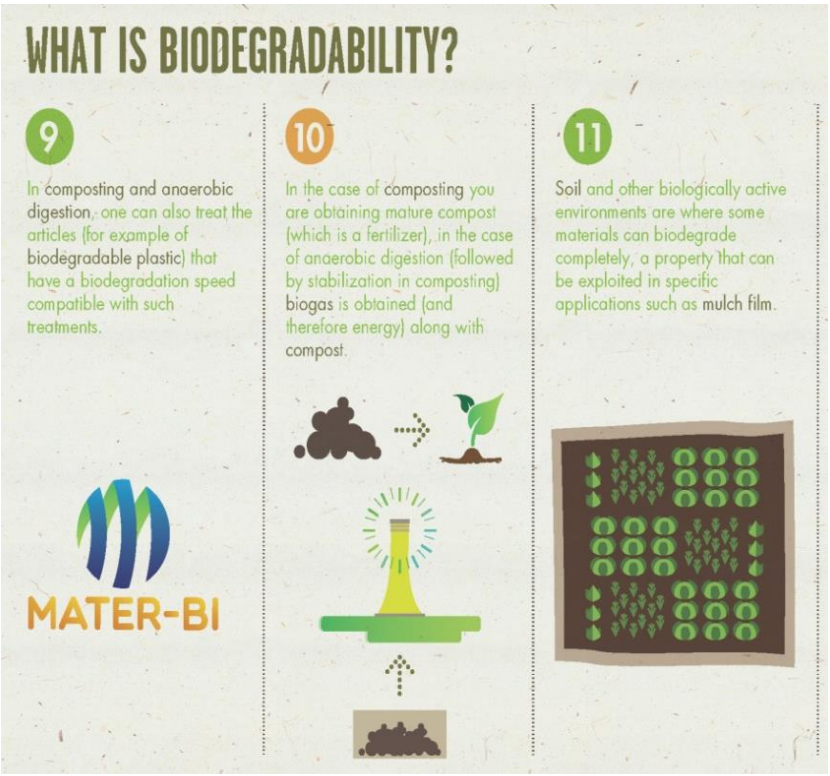
BIODEGRADABILITY



Source of chart WWW.MATERBI.COM

TO SPECIFY…

BIODEGRADABILITY



Source of chart WWW.MATERBI.COM

COMPOSTABLE MATERIALS…

BIOPOLYMERS PLA

Polymers are large organic molecules made up of units that recurs along the carbon chain: they can be natural (BIOPOLYMERS) or synthetic (SYNTHETIC POLYMERS).
PLA (Polylactic Acid) is a biopolymer that derives from 100%renewable resources of vegetable origin (from corn or cassava starch, sugar cane or beet) that are used to obtain sugar molecules.
Starch (glucose) is extracted from plants and thanks to the action of enzymes and through hydrolysis glucose is converted into dextrose. Microorganisms activate dextrose fermentation to obtain lactic acid. A patented process transforms lactic acid into lactide monomer.
The polymerization process binds these monomers forming a polylactide polymer chain. The final form is PLA granules

The PLA INGEO® that ILIP uses for the realization of its compostable products is supplied by NatureWorks

COMPOSTABLE MATERIALS…

BIOPLASTICS

MATER-BI®

MATER-BI is an innovative material created by NOVAMONT and is part of a family of completely biodegradable and compostable bioplastics used for the realization of solutions and products for everyday life with reduced environmental impact. Mater-Bi consists of a blend of different components, some of which are from renewable resources.

MATER-BI contains:

- CORNSTARCH. Novamont declares that it is not genetically modified, is cultivated in Europe with traditional agricultural practices, and that no deforested land or virgin soils are used for its production.
- VEGETABLE OILS. Novamont declares that the vegetable oils used to produce the main raw materials of third-generation MATER-BI derives from non-transgenic crops other than palm and soy, which require little irrigation.
- MINERAL FILLER

MATER-BI

NOVAMONT

MATER-BI®

Mater-bi is not a polymer but a Compound whose percentage of biobased biopolymers is around 50%.
ILIP BIO tableware made of Mater-Bi has a high temperature resistance and can also be used for hot drinks and foodstuff up to a temperature of 90°C (heat-sealable plates).

I MATERIALI COMPOSTABILI…

BIOPLASTICS

GAIA BIODOLOMER®

Biodolomer® is a high-quality mineral filled biomaterial compostable and biodegradable, containing renewable resources.

Bio ® dolomer

GAIA BioMaterials - for a humane world

*Biodolomer® is certified compostable according to the EN13432 standard

Renewable materials in Biodolomer®:

- Calcium cabonate
- Sugar cane
- Rape seeds

Why calcium carbonate?
Calcium carbonate contributes to the earth's natural fertility, that is why GAIA adds calcium carbonate in BIODOLOMER®.
Calcium carbonate contains traces of minerals like silica which also improves growth. Silica gives nutrition, mechanical strength, and resistance against fungal diseases.

In 2016, Gaia BioMaterials, in a joint partnership, received EU funds from the LIFE programme for a 30 MSEK project in order to show how fossile-based and energy intensive plastics and packaging materials can be replaced by Gaia BioMaterials renewable and biodegradable biomaterial Biodolomer®

Life

GAIA – BIODOLOMER

ILIP BIO cutlery made from BIODOLOMER® have a high temperature resistance and can also be used for hot foodstuff up to a temperature of 70°.

BIODEGRADABLE MATERIALS…

RAW MATERIAL FROM RENEWABLE SOURCES

CELLULOSE PULP

Cellulose is one of the most important polysaccharides. It consists of a large number of diglucose molecules joined together by a β-glycosidic bond. It is mainly contained in vegetables. The raw material used for the production of ILIP Bio pulp plates is bagasse, the sugar cane fiber.

PAPER

Paper is a material consisting mainly of vegetal raw materials, joined by felting and dried. Paper can be coated, with compostable plastic, or uncoated “free from plastic”.

WOOD

The wood used for the production of ILIP Bio wooden cutlery is birch from responsibly managed forests that are FSC certified (COC - Chain of Custody).

The **FSC** certification is internationally recognized and its purpose is the correct forest management and the traceability of derived products. The FSC® mark identifies products containing wood from forests that are managed correctly and responsibly according to strict environmental, social and economic standards.

PRODUCT FEATURES…

RESISTANCE TO TEMPERATURES

PLA		CUPS, PLATES, CUTLERY, BOWLS DESSERT PLATE, FILM LID, CONTAINERS	For cold food at room temp. or at max. 40 °C
Bio dolomer®	bio DOLOMER®	CUTLERY	Max. 80°C 15 min.
	WOOD	CUTLERY & COFFEE STIRRER	Max. 80°C 15 min.
	CARD BOARD	CUPS, PLATES & TRAY	Max. 90°C 30 min.
MATER-BI	HP High Performance	PLATES 13g & 14g (eco-design, light-weight) CUP 200ml	Max. 70°C < 2 h
	HP High Performance	CUP 80ml, PLATES 16g, BOWL, CUTLERY PIZZA PLATE	Max. 80°C 15 min.
	HP High Performance	HEAT-SEALABLE PLATES 18g & 22g	Max. 90°C < 1h
	PULP	PLATES, SOUP BOWL, CONTAINERS, TRAYS	Max. 100°C 30 min.

PRODUCT FEATURES…

INSTRUCTIONS FOR SHIPMENT AND STORAGE OF PLA PRODUCTS

PLA products are sensitive to high temperatures. During the summer period it is necessary to consider transports in insulated trucks and their storage in warehouses with suitable temperatures.

• **AVOID HIGH TEMPERATURES**

- Mark out on the boxes "product sensitive to temperature"
- Always specify the routes, shipping times, delivery dates in order to effect transports in the coolest parts of the day
- Choose insulated covers or refrigerated means of transport
- Stock under 105°F/40°C

• **DO NOT LEAVE UNDER THE DIRECT SUNLIGHT**

- Mark out on the boxes "product sensitive to sunlight"
- Plan just-in-time deliveries for packaging of fruit and vegetables

• **STOCK ON LOWER RACKS**

- Always stock in the cooler places of the warehouse
- Open the mean of transport immediately after arrival
- Do not stock near spotlights or heating points
- avoid stocking under metallic roofs or in places lacking in air circle

• **HANDLE WITH CARE**

- Do not leave the product loaded for long periods
- Choose the truck and shipping accessories with adequate insulated roofs
- Load and ship during the coolest part of the day
- Place the material in ad adequate place immediately after its delivery
- Ship and stock in white corrugated cartons

THE CERTIFICATIONS…

BIODEGRADABLE PRODUCTS

PAPER, PULP AND WOOD

Materials of natural origin, such as wood, wood fiber, starch, paper pulp…and relevant packaging made from these materials, are considered “biodegradable” without the need of further tests or certificates.

For example, products made of cellulose pulp (bagasse) or uncoated paper plates are included in this definition.

Instead, plates and cups coated with compostable plastic, do NOT fall into the category mentioned above and must be subjected to the European norm EN 13432.

EN 13432

The **E**uropean **N**orm **EN 13432**, harmonized by the European Committee, determines the characteristics that a material must possess in order to be defined biodegradable and/or compostable. The term "compostable" refers to rules related to the non-toxicity of the decomposed material if dispersed in nature.

THE CERTIFICATIONS…

COMPOSTABLE PRODUCTS

The TÜV AUSTRIA group - internationally at the forefront in terms of quality, energy, environment, safety and product - in 2017 acquires the OK COMPOST certification mark and scheme from the Belgian entity Vinçotte nv. The Group's services are therefore expanded with a new product certification, which labels compostable products.

The Seedling logo is a reliable label for compostability. Along with the certification number printed on the product, the logo provides transparent information on the disposal of the packaging, thus gives assistance in the purchase of the product. The certification process is offered by the Belgian certifier TÜV Austria Belgium and by the German certifier DIN CERTCO.

The brand mainly known in Italy meets the needs of the members of CIC (Italian Composting Consortium) to clearly identify compostable products. Along with the license number the mark allows you to identify compostable materials and products.

INDUSTRIAL COMPOSTABLE

The certifiers issue the **INDUSTRIAL COMPOSTABLE** certification for products that meet the requirements of **the European Standard EN 13432 of 2002** in industrial composting processes (60°C and 90% Relative Humidity). To obtain the certification, the product must meet stringent requirements set by the standard and must be subjected to accurate laboratory analysis.

THE ILIP LICENCES

COMPOSTABLE PRODUCTS OF OWN PRODUCTION

CUPS, PLATES & CONTAINERS IN PLA

ILIP S.R.L.
007-P1096

Cup 80cc IN M-BI

ILIP S.R.L.
137-P1096

PLATES IN M-BI

ILIP S.R.L.
140-P1096

CUPS IN PLA

compostable
7P0118

CONTAINERS IN PLA

compostable
7P0103

CUPS & PLATES IN PLA & M-BI

compostable
7P0646

CUP 200ml made of MATER-BI

compostable
7P2398

PRODUCT FEATURES…

COMPLIANCE WITH FOOD CONTACT REGULATIONS OF PLA, MATER-BI® and BIODOLOMER®

COMPLIANCE WITH FOOD CONTACT
GLOBAL OR SPECIFIC MIGRATION ANALYSIS

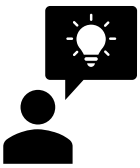
INTENDED USE
Internal tests simulate the intended use of finished product that must maintain its mechanical features and original geometry

ILIP BIO PRODUCTS IN PLA:
based on their intended use, temperature and conditions of use of products in PLA are max. 40°C or room temperature for prolonged periods of time.

ILIP BIO PRODUCTS Biodolomer:
based on their intended use, temperature and conditions of use of the products are 80°C for 15 minutes.

ILIP BIO HIGH PERFORMANCE PRODUCTS (Mater-bi):
based on their intended use, temperature and conditions of use of HP products are 70°C for 2 hours (lightweight & ecodesing) - max. 80°C for 15 min. and max. 90°C for a period less than 1h.

ILIP Bio



The use of **compostable and renewable** materials makes IlipBio the most advanced solution in terms of quality and **environmental sustainability** with the guarantee and the security of compliance to the norms of compostability and food contact.

IlipBio & FIBRAware

PRODUCT FEATURES…

COMPLIANCE WITH FOOD CONTACT REGULATIONS OF PULP, PAPER & WOOD

COMPLIANCE WITH FOOD CONTACT
GLOBAL OR SPECIFIC MIGRATION ANALYSIS

INTENDED USE
Internal tests simulate the intended use of finished product that must maintain its mechanical features and original geometry

ILIP BIO PULP PRODUCTS:
based on their intended use, temperature and conditions of use of products made of pulp are max. 100°C for 30 minutes.

ILIP BIO PRODUCTS MADE OF PAPER:
based on their intended use, temperature and conditions of use of products made of paperboard and wood are max. 90°C for max. 30 min.

ILIP BIO PRODUCTS MADE OF WOOD:
based on their intended use, temperature and conditions of use of products made of paperboard and wood are max. 80°C for max. 15 min.

DISPOSAL OF THE PRODUCT AFTER ITS USE…

END OF LIFE: DIFFERENCES BETWEEN PLASTICS AND BIOPLASTICS

ILIP & BIOPLASTICS

Since 2004 Ilip has been converting **bioplastics** to make packaging and containers to serve and pack fresh food products. All these items are **certified** and comply with **the European standard EN13432**. The life of these products ends with **organic recycling** (industrial composting) when appropriate and available and the result of this process is **compost**.

PACKAGING & ENVIRONMENTAL LABELING

CLEAR INFORMATION CONFORM TO REQUIREMENTS

Our goal is to provide correct, clear and compliant information to Italian and European regulations so that the consumer can make his conscious choice in purchasing the product.

DIFFERENZIARE I RIFIUTI / WASTE SORTING		
Che cos'è? / What is it?		**Dove smaltire / Where to dispose of?**
FILM CONFEZIONE PACKAGING FILM	**2 HD-PE**	RACCOLTA PLASTICA PLASTIC WASTE
CONTENITORE CONTAINER	**21 PAP**	RIFIUTO ORGANICO* ORGANIC* WASTE
*Verifica con il tuo Comune o gestore locale le modalità di conferimento e raccolta dei rifiuti. *Check with your municipality or local waste manager how to deliver and collect waste.		

CONDITIONS OF USE:

MAX. 100°C 30 min.

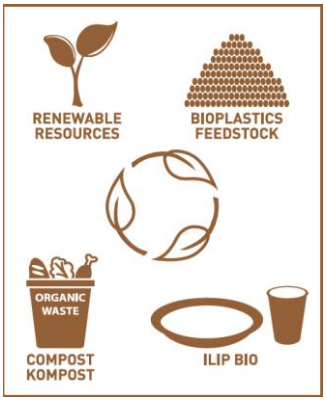
NOT SUITABLE FOR HEATING IN THE TRADITIONAL OVEN

compostable

COMPOSTABILE CIC

Verifica con il tuo Comune/Gestore Locale le modalità di conferimento e raccolta dei rifiuti

*UNI EN 13432:2002



PRODUCED IN ITALY

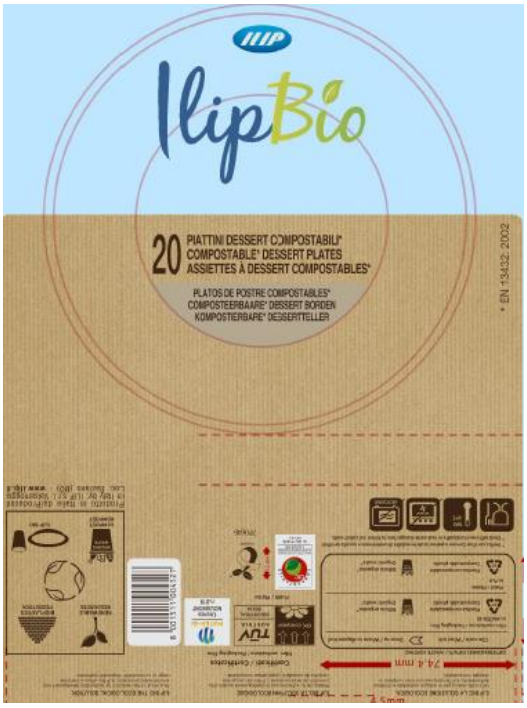
SUITABLE FOR HEATING IN THE MICROWAVE

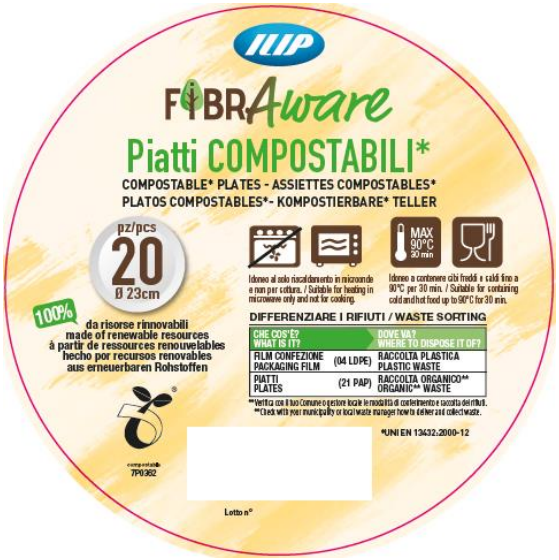
What is the mandatory environmental labeling?

The legislative decree n. 116 of 2020 introduced the obligation of environmental labeling for packaging. The standard obliges manufacturers to apply an environmental label on all packaging that is placed on the market, to facilitate collection, reuse, recovery and recycling. But it will also provide information to consumers on the correct destination.

PACKAGING & ENVIRONMENTAL LABELING

DESIGN OF THE PACKAGING



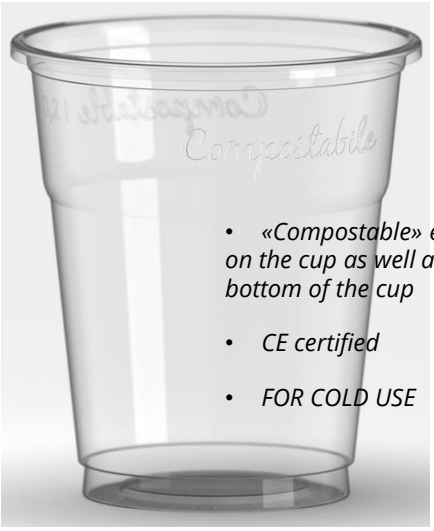


labels & film

21

THE ILIP BIO PRODUCT RANGE

CUPS IN PLA



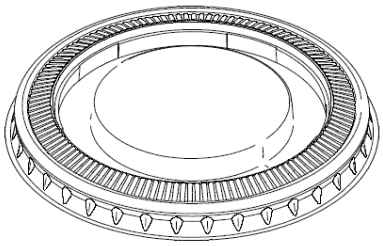
- *«Compostable» embossed on the cup as well as on the bottom of the cup*
- *CE certified*
- *FOR COLD USE*

ILIP code	SAP code	capacity/ml	CE mark ml	weight g	pcs/conf
160KPLA	60783	170	-	3,5	50
LI2001TCE	61381	200	0,2 BRIM	4,7	1
LI20050TCE	61367	200	0,2	4,7	50
LI25050TCE	61354	250	0,2	4,7	50
LI30050TCE	61353	300	0,2 FOAM 0,25	5,5	50
LI1/2PT50TCE	61466	300	½PT FOAM	5,5	50
LI35050TCE	61352	350	0,25 FOAM	7,7	50
LI4001TCEN	61560	400	0,3 FOAM	7,7	50
LI40020TCE	61431	400	0,3 FOAM	7,7	20
LI40050TCE	61364	400	0,3 FOAM	7,7	50
LI50050TCE	61360	500	0,4	8,8	50
LI57550TCE	61363	575	0,4 FOAM	11,0	50
LI1PT50TCE	61467	1PT	1 PT bordo	11,0	50
LI65050TCE	61362	650	0,5 FOAM	11,0	50

THE ILIP BIO PRODUCT RANGE

LIDS FOR CUPS IN PLA

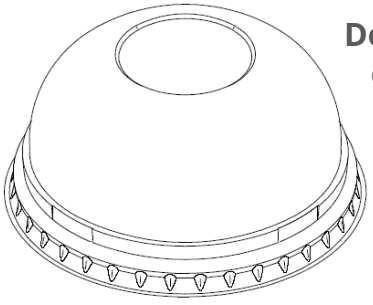
To complete the range of PLA cups, ILIP offerS compostable lids in PLA available in 3 different diameters, 78mm, 85mm, 95mm.



flat lid

FOR COLD USE

Available sizes:
- **Ø 78mm**
- **Ø 85mm**
- **Ø 95mm**



Dome lid with or without hole

THE ILIP BIO PRODUCT RANGE

CUPS IN PLA

LIGHT CUPS

ILIP CODE	SAP CODE	capacity ml	weight g	Pcs./ pack
LI160W50TE	61602	160	2	50
LI200W1TE	61385	200	2,2	1
LI200W50TE	61412	200	2,2	50
LI230W50TE	61630	230	2,4	50

FOR COLD USE ONLY

TUMBLER

Codice ILIP	SAP CODE	capacity ml	CE Mark ml	weight g	pcs/ pack
LI35050TCET	61468	350	0,3	6,9	50

ingeo™ NatureWorks

THE ILIP BIO PRODUCT RANGE

PRODUCTS IN PLA

FOR COLD USE

dessert bowl


10 pcs


50 pcs

dessert plate

cutlery

salad bowl & lid

description	SAP code	sizes/ capacity	weight g	pieces/ pack	conditions of use
dessert bowl	71247 70880	Ø 12.6 cm H 4.6 cm 300ml	6	10 50	MAX 40°C
salad bowl		18x18 h92cm	9,5	6 25	
lid		18x18 h22cm	11,5	40	
	71360			75	
dessert plate	70543	Ø 16.5 cm	5,5	20	
fork	80772	17.5 cm	4,1	25	
knife	80770	17.5 cm	3,5	25	
spoon	80771	17.5 cm	4,4	25	

ingeo™ NatureWorks

THE ILIP BIO PRODUCT RANGE

TRAYS IN PLA

FOR COLD USE

LINEA P

LINEA SH

LINEA G

ILIP code	SAP code	sizes	capacity ml	weight g	conditions of use
LIP1PLA	30153	160x116xh22	250	9	
LIP2PLA	30134	191x132xh22	400	13,5	
LIP3PLA	30225	230x157xh23	600	21,5	
LIG250PLA	30116	126X117Xh43	250	12	MAX 40°C
LIG370PLA	30381	126x117xh56	370	12	
LIG500PLA	30118	135x125xh56	500	15,5	
LIG750LPLA	30119	188x143xh52	750	22	
LIG1000LPLA	30015	188x143xh67	1.000	25	
LISH20PLA	30092	217x167xh20	570	20,5	
LISH35PLA	30094	217x167xh35	1.000	23	
LISH55PLA	30096	217x167h55	1.500	28,5	

ingeo™ NatureWorks

THE ILIP BIO PRODUCT RANGE

CUPS IN MATER-BI

FOR HOT USE

MAX 80°C 15 min.

MAX 70°C 2h

MAX 70°C x 2h

cups and packaging made of compostable mater-bi to be disposed of in the organic waste bin

ILIP code	SAP code	capacity	weight	pcs/ pack
LI8040	61540	80ml	2,5g	40
LI200W50	61550	200ml	3,5g	50

Compostable and high-performing cups for cold and hot use

MATER-BI

THE ILIP BIO PRODUCT RANGE

PLATES MADE OF MATER-BI

FOR HOT USE

	flat plate	deep plate
eco-design **Ø20 -**13g		
light-weight **Ø21 -** *14g* & HIGH PERFORMANCE **Ø21 -** 16g		 **with flange**

high performing compostable plates for cold and hot use

description	code	sizes	weight	Pcs/ pack	line	conditions of use
flat plate	71395	Ø20cm	13g	12	*eco-design*	MAX **70°C** 2h
	71391			20		
deep plate	71394	Ø20cm	13g	12		
	71390			20		
flat plate	71370	Ø21cm	14g	12	*light-weight*	
	71380			25		
deep plate	71371	Ø21cm	14g	12		
	71381			25		
flat plate	71022	Ø21cm	16g	25	HIGH PERFORMANCE	MAX **70°C** 2h MAX **80°C** 15min
	71262			50		
deep plate	71023	Ø21cm	16g	25		
	71264			50		

MATER-BI

THE ILIP BIO PRODUCT RANGE

PLATES MADE OF MATER-BI

FOR HOT USE

	flat plate	deep plate
eco-design **Ø20** -13g		
light-weight **Ø21** - *14g*		
HIGH PERFORMANCE **Ø21** - 16g		

Distinctive packaging

MATER-BI

THE ILIP BIO PRODUCT RANGE

PLATES MADE OF MATER-BI

FOR HOT USE

description	code	sizes	weight	Pcs/ pack	conditions of use
oval plate	71315	26x19 cm	16g	10	MAX 70°C 2h; MAX 80°C 15 min.
oval plate	70805	26x19 cm	16g	25	
bowl	71265	Ø 16,5 cm	16g	12	
bowl	71257	Ø 16,5 cm	16g	25	
pizza plate	tbc	Ø 31,5 cm	32g	8	

Compostabile high-performing plates for cold and hot food

MATER-BI

THE ILIP BIO PRODUCT RANGE

HEAT-SEALABLE PLATES IN MATER-BI

FOR HOT USE

Ilip has developed a line of heat-sealable compostable plates with a high thermal resistance.

description	SAP CODE	sizes cm	height cm	weight g	pcs/pack
piatto piano		18x18	2,5	18	40
	71153				800
piatto fondo			3,5	18	40
	71171				800
piatto fondo 2 scomparti			4,0	22	40
	71172				800
coperchio			0,55	11,5	40
	71360				75

ILIP code	SAP code	widths
LIFANP185	79000	185 mm
LIFANP220	79002	220 mm
LIFANP370	79010	370mm
LIFANP420	79001	420 mm

Suitable to come into contact with food-stuff at room temperature or below.

The plates can be closed with a rigid lid in PLA that resists to temperatures from -20 to +40oC, or they can be heat-sealed with film in PLA of different widths.

THE ILIP BIO PRODUCT RANGE

COMPOSTABLE CUTLERY

FOR HOT USE

MATER-BI®


BIS

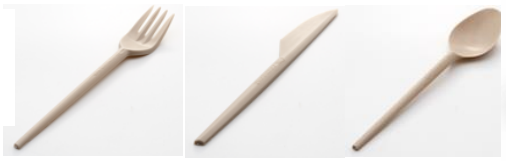

TRIS


100 pz

CUCCHIAINO

description	ILIP code	SAP code	length mm	weight g	pcs/ pack	temp. use cond.
dessert spoon	LICND40	80901	120	2,3	40	
	LICND100	80570			100	MAX 80°C 15 min.
Bis fo-kn+nap	LIBIS+T	80840	170	12,6	250	
Tris fo-kn-sp+nap	LITRIS+T	80841	170	17,9	200	

Bio dolomer®




25 pz

decription	ILIP code	SAP code	LU mm	g	pcs pack	use cond.
fork	LIFO25MB	80827	175	3,2	25	
knife	LICO25MB	80828	175	3,2	25	
spoon	LICU25MB	80829	175	4,0	25	MAX 80°C 15 min.
Bis fo-kn + nap	LIBIS+T	80920	175	8,8	48	
Tris fo-kn-sp + nap	LITRIS+T	80921	175	12,8	48	

THE ILIP BIO PRODUCT RANGE

CELLULOSE PULP

FOR HOT USE

Ilip has included a wide range of **biodegradable** products made of cellulose pulp. The raw material used is bagasse, the sugar cane fiber, the place of production is PRC.

16 PRODUCTS IN PACKS OF 50 PIECES

descrizione	ILIP code	SAP code	sizes/capacity	conditions of use
Flat plate M-XL	LIPP50 LIPP50XL	71187 71186	Ø 22 cm Ø 26 cm	
Deep plate	LIPF50	71240	Ø 19 cm 680ml	
bowl	LISC50	71182	Ø 17,5 cm 400ml	
Ovale plate L-XL	LIPOV50 LIPOV50XL	71189 71188	26 x 20 cm 31,8 x 25,5 cm	
Square plate S-M-XL	LIPPQ50S LIPPQ50M LIPPQ50XL	71185 71204 71184	16 x 16 20 x 20 26 x 26	
Rectangular plate	LIPPR50	71183	26 x 13 cm	
Dessert plate	LIPND50	71200	Ø 17,5 cm	
Plate 2 compartments	LIP2S50	71203	Ø 22 cm	
Plate 3 comp. M-XL	LIP3S50 LIP3S50XL	71202 71201	Ø 23 cm Ø 26 cm	
Catering tray 5 compartments	LIVS5	30570	26,5 x 21,5 x 2,5 cm	
tray	LIVS173	30572	17,5 x 12,2 x 4 cm	

Suitable for heating in microwave oven but not for cooking.

THE ILIP BIO PRODUCT RANGE

CELLULOSE PULP

FOR HOT USE

Ilip offers a wide range of **compostable** products made of cellulose pulp. The raw material used is bagasse, the sugar cane fiber, the place of production is PRC.

7 PRODUCTS IN PACKS OF 15 PIECES

description	ILIP code	SAP code	sizes/capacity	conditions of use
Flat plate M	LIPP15	71233	Ø 22 cm	MAX 100°C 30 min.
Deep plate	LIPF50	71241	Ø 19 cm 680ml	
Dessert plate	LIPND50	71234	Ø 17,5 cm	
Ovale plate L	LIPOV15	71242	26 x 20 cm	**Suitable for heating in microwave oven but not for cooking.**
Square plate S-M-XL	LIPPQ50S LIPPQ50M LIPPQ50XL	71243 71245 71244	16 x 16 20 x 20 26 x 26	

CELLULOSE PULP

Cellulose is one of the most important polysaccharides. It consists of a large number of diglucose molecules joined together by a β-glycosidic bond. It is mainly contained in vegetables such as sugar cane.

THE FIRBRAWARE® PRODUCT RANGE

CELLULOSE PULP

FOR HOT USE

To complete the range of containers for catering and restaurant professionals, Ilip will insert a range of **biodegradable** clamshell containers in cellulose pulp.

8 ITEMS IN PACKS OF 50 PIECES

ILIP code	capacity	weight/g	sizes	use cond.
LICP450	450	24	155X155X77	MAX 90°C 30 min.
LICP600	600	20	182X136X68	
LICP1000Q	1000	37	220X203X76	
LICP1000Q3S	325 / 70 / 60	37	220X203X76	
LICP1200	1200	42	228X228X76	
LICP12003S	350 / 120 / 120	42	228X228X76	**Suitable for heating in microwave only and not for cooking.**
LICP1000R	1000	30	230X153X80	
LICP1000R2S	500 / 300	30	230X153X80	

CELLULOSE PULP

Cellulose is one of the most important polysaccharides. It consists of a large number of diglucose molecules joined together by a β-glycosidic bond. It is mainly contained in vegetables. The raw material used for the production of ILIP Bio pulp plates is bagasse, the sugar cane fiber.

THE FIRBRAWARE® PRODUCT RANGE

CARDBOARD

FOR HOT USE

Ilip has included in its ILIP BIO offer a range of paper products consisting of cups, plates and a tray in packs of 20 and 50 pieces.

The raw material used is 100% renewable, pure Scandinavian virgin cellulose fiber produced from wood from responsibly managed forests and **FSC certified (COC - Chain of Custody)**. The products are made in EUROPE.

The cups are made of paper with a water-based dispersion Barrier of organic polymers, are **free from plastic film**, **biodegradable** and can be disposed in the paper waste sorting.

Since the plates are not chemically modified, they are considered naturally biodegradable and resistant to liquids and fats.

Plates and cups can be used for cold and hot food and drinks up to a temperature of 90°C.

CARDBOARD

Paper is a material consisting mainly of vegetal raw materials, joined by felting and dried. Paper can be coated, with compostable plastic, or uncoated “free from plastic”.

THE FIRBRAWARE® PRODUCT RANGE

FOR HOT USE

PAPER CUPS
WITH WATER DISPERSION COATING*

The cups made from cardboard "free from plastic film" are biodegradable, recyclable and can be disposed of in the paper recycling bin.

ILIP CODE	SAP CODE	CAPACITY	WEIGHT g	pcs/ pack	CONDITIONS OF USE
LI12050P	61510	4oz 120 ml	2,75	50	MAX 90°C 30 min.
LI18050P	61511	6oz 180 ml	4,3	50	
LI25050P	61512	8oz 250 ml	6,8	50	
LI35050P	61513	12oz 350 ml	10,3	50	

FREE FROM PLASTIC FILM

PRINTABLE – CUSTOMIZABLE

THE FIRBRAWARE® PRODUCT RANGE

LIDS IN PS FOR PAPER CUPS

FOR HOT USE

To complete the range of paper cups, Ilip offers recyclable polystyrene lids in two diameters, to be disposed of in the plastic bin.

ILIP CODE	SAP CODE	FITS PAPER CUP	WEIGHT g	Pcs/ pack	USE CONDITIONS
LIC120	61580	120 ml	1,30	100	MAX 80°C 15 min.
LIC250	61581	250 ml	2,12	100	MAX 70°C 2 h

SPECIFICATION

WATER DISPERSION COATING

Biodegradability and recyclability - The paper with an aqueous dispersion coating is biodegradable according to the European standard EN13432:2000 up to 90% in 105 days and is recyclable and «repulpable» to 94,7% like normal uncoated paper.

Microplastic materials

There are a number of definitions, official and non-official about what should be regarded as a microplastic material. A frequently used definition is that microplastics are solid plastic materials with a diameter of less than 5 mm.

Proposal for a EU directive to address the most important sources of microplastics has been made by the European Chemicals Agency (ECHA). In this proposal, the intentional use of microplastic in a number of everyday products is to be banned.
In the board used to produce our products there are no intentionally added primary microplastics.
Presently, there is no legislation and no clearly defined analytics or restrictions regarding non-intentionally formed microplastics.

SPECIFICATION

*WATER DISPERSION COATING

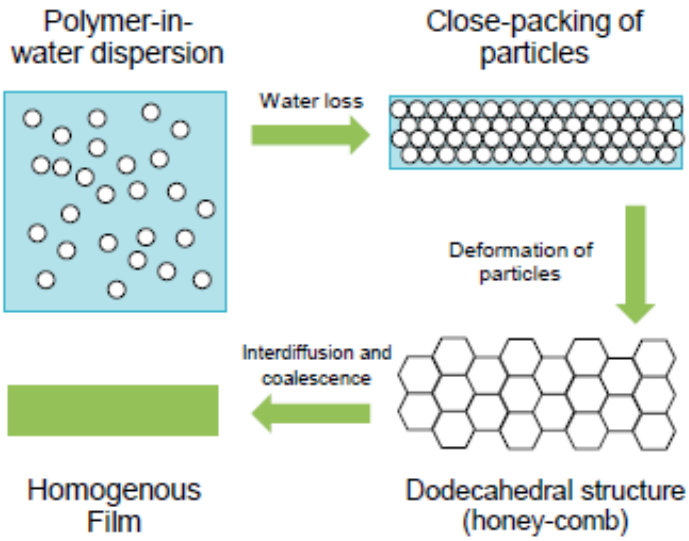
The nature of the water dispersion coatings

The aqueous dispersion of organic polymers, generally called "lactic acids", which are mixtures of natural and synthetic polymers, are widely used in the paper industry as coatings, binders, colours or adhesives. The " lactic acids" do not have a melting point and are unable to perform the function of the main structural component of The finished product and do not have the stretching properties like the plastic has. Generally, these polymers are also mixed with «fillers» and additives to give them the Expected functionality.

For the production of the cups they only serve as a barrier to liquids and fats and as adhesives.

Thanks to these characteristics, they cannot be classified as plastics according to the definitions used by both the European Plastics Directive 10/2011 and the European Directive on S.U.P. 2019/904. Consequently, products made with paper with aqueous dispersion coating are not covered by the S.U.P. Directive *

Interpretation of the paper manufacturer



THE FIRBRAWARE® PRODUCT RANGE

UNCOATED PAPER PLATES

FOR HOT USE

Ilip offers a range of biodegradable plates made from uncoated PAPER, resistant to liquids and fats that can be used with cold and hot foods.

Piatto piano Ø 23 cm

Vaschetta 190x110 cm

Piattino dessert Ø 18 cm

Piatto pizza Ø 32 cm

description	sizes/cm	pcs/pack	use conditions
flat plate	Ø 23	20 50	MAX **90°C** 30 min.
dessert plate	Ø 18	20 50	
pizza plate	Ø 320	20 50	
tray	190x110 h30	50	

THE FIRBRAWARE ® PRODUCT RANGE

WOODEN CUTLERY

FOR HOT USE

The cutlery derive from 100% renewable resources, is biodegradable, sustainable and is made of birch wood from responsibly managed forests that are FSC certified (COC - Chain of Custody). The Ilip Bio wooden cutlery can be used for cold and hot foodstuff and can withstand temperatures up to 70°C degrees for max. to 2 hours.

20pz

100pz

description	SAP code	length mm	weight g	pcs/pack	use conditions
fork	80814 80813	160	2,5	20 100	
kinfe	80816 80810	160	2,5	20 100	MAX 80°C 15 Min.
spoon	80815 80812	160	3,0	20 100	
dessert spoon	80817 80811	110	2,0	20 100	MAX 70°C 2 H
set bis	80820	160	7,0	50	
coffee stirrer	80821	90	0,7	100	
stirrer sing. packed	80822	90	0,45	100	

WOOD

The wood used for the production of ILIP Bio wooden cutlery is birch from responsibly managed forests that are FSC certified (COC - Chain of Custody).

THE CERTIFICATIONS…

OF THE RANGES

DNV·GL

BRC CERTIFICATE

Certificate No.:
35186-2008-ABRC IOP-ITA-ACCREDIA

Initial Audit date: 2008-06-18

Audit date: 2021-01-14

Certificate expiry date: 2022-02-25

Re-audit due date:
from 2021-12-17 to 2022-01-14

This is to certify that the processing activities of

ILIP S.r.l.

Production site: Via Castelfranco, 52 – 40053 Valsamoggia, loc. Bazzano (BO), Italy
Warehouse: Via delle Industrie 59/61 – 41013 Castelfranco Emilia, loc. Piumazzo (MO), Italy

BRC site code: 1954055

has been found to conform to the standard:
GLOBAL STANDARD for PACKAGING MATERIALS
ISSUE 6: AUGUST 2019

Audit programme: **announced**

The certificate is valid for the following scope:
Extrusion and thermoforming of containers, lids, trays, fruit nest trays for food packaging and disposable tableware (plates, glasses) made in PP, PET, PS, compostable biopolymers. Outsourced processes: off-set decoration and packing of plastic cups; punnets handle application; packing of plastic cups (one single piece per bag) , application of pad and bubble pad in punnets.
Estrusione e termoformatura di contenitori, coperchi, vassoi e alveoli per il confezionamento di alimenti e di stoviglie monouso (piatti, bicchieri) in PP, PET, PS, biopolimeri compostabili. Processi esternalizzati: decorazione offset e confezionamento di bicchieri in plastica; applicazione manico ai cestini; confezionamento di bicchieri in plastica in confezione singola , applicazione di pad assorbenti e microbolla in cestini.

Manufacturing Category: **04 - Rigid plastics**
Including additional modules: **No**
Exclusion from scope: **Factored Goods**
Achieved grade: **A**
Auditor number: 21646

Place and date:
Vimercate (MB), 2021-02-19

ACCREDIA

BRCGS Packaging and Packaging Materials CERTIFICATED

For the Accredited Unit:
DNV GL Business Assurance Italia S.r.l.

Sabrina Bianchini

Sabrina Bianchini
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid. Any changes in the product shall immediately be reported to DNV GL Business Assurance Italia S.r.l. in order to verify whether this Certificate remains valid. This certificate remains the property of: ACCREDITED UNIT: DNV GL Business Assurance Italia S.r.l., Via Energy Park, 14, 20871 Vimercate (MB), Italy. Tel. 039.68 99 905.
Website: www.dnvgl.com/assurance
If you would like to feedback comments on the BRCGS Standard or the audit process directly to BRCGS, please contact tell.brcgs.com.
Visit brcdirectory.com to validate certificate authenticity.

compostable

OK compost

TÜV AUSTRIA INDUSTRIAL

COMPOSTABILE CIC
Verifica con il tuo Comune/Gestore Locale le modalità di conferimento e raccolta dei rifiuti

FSC
www.fsc.org
100%
Wood from well-managed forests

ILIP MEMBER / PARTNERSHIPS

Sedex Member

PRO FOOD

UNIONPLAST
Federazione Gomma Plastica

Passion for packaging

ILIP SRL
via Castelfranco 52
40053 Valsamoggia BO
tel +39 0516715411
fax +39 051 6715413
info@ilip.it – www.ilip.it

a business of ilpa group