NCD CORPORATION

Your Eco-Future Friendly Solution

2023

www.ncdcorporation.com

FUTURE - FRIENDLY

CRiSP

EXCLUSIVE

CRISP TRAYS

Crisp trays represent an eco-friendly innovation, crafted from FSC grade paper and lined with BioPLA for full compostability. They're versatile for a wide range of fresh foods, including produce, meats, cold cuts, and cheeses."

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CRISP TRAYS COMPOSTING PROCESS

Images from February 2023 until May 2023. It shows how fast our Crisp trays degrade in a natural composting environment.

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MATERIAL & PRODUCT DATA SHEET
CRISP TRAYS

Standard Crisp tray sizes	CRP-1: 24x19x3.8cm CRP-2: 21x15x4.8cm CRP-3: 27x15x1.6cm CRP-4: 21x15x1.6cm & Customizable
Tray material thickness	0.44-0.46mm (320g+30g PLA Lining)
Tray color	Wooden pulp natural color
Average tray weight	13 to 22g
Estimated loading tray capacity	0.8 to 1 kg
Biodegradable	Yes
Compostable	Yes
Recyclable	Yes
Tray operating heat temp. range	12 to 100°C
Tray operating cold temp. range	up to -10°C
Estimated microwave usage time	3 to 5 minutes
Tray behavior in cold storage	25 to 30 days
Vegetable/Fruit/Meat altered in tray	No
Saturation moist capacity	3.50%
Tray sealing pressure resistance	4kg to 6kg/cm2
Paper & lining certificates	SGS / DIN / FSC
Storage shelf life	24 to 28 months
Storage conditions	Dry, no direct sunlight up to 35°C

No leakage **Waterproof** **Oil proof** **Microwave safe**

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CRISP CHICKEN BAG

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Our Crisp Bag 6001 is a new & innovative technology in sustainable food packaging that revolutionizes the way we package hot foods. Made from Plant Cellulose & BioPLA lining our bag can withstand high heat & low cold temperatures making it perfect for or all types of hot served fresh foods like roasted chicken, hams, ribs, and more.

This cutting-edge bag is designed with a primary focus on reducing environmental impact while ensuring food safety and freshness. It being completely Compostable eliminates the need for traditional single-use plastics that contribute to pollution and harm our ecosystems.

Our Crisp bag offers a viable alternative that combines functionality, convenience, and sustainability, paving the way for a greener future. By embracing this technology, we can reduce our carbon footprint, minimize plastic waste, and contribute to the overall well-being of our planet. Together, let us take a step towards a more sustainable and responsible approach to food packaging.

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CRISP CHICKEN BAGS

Crisp bags represent the next-gen CHICKEN bags, crafted from fully compostable materials with laminated NK, Pbat & PBS, or BioPLA, Pbat & PBS lining.

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MATERIAL & PRODUCT DATA SHEET CRISP CHICKEN BAG

Bag sizes	CRPCB-1: H29.5xW35cm
Bag material	Cellulose film / Paper / Modified PBAT
Bag window material	Cellulose film + Modified PBAT
Bag weight capacity	Up to 6 pounds
Material thickness	190um
Color	Natural color
Average weight	60g
Estimated loading tray capacity	0.8 to 1 kg
Biodegradable	Yes
Compostable	Yes
Recyclable	Yes
Bag operating heat temp. range	120°C
Bag operating cold temp. range	up to -20°C
Estimated microwave usage time	3 minutes
Bag behavior in cold storage	25 to 30 days
Vegetable/Fruit/Meat altered in bag	No
Grease and water proof	Yes
Bag sealing	Ziploc method resealable
Paper & lining certificates	BPI / TUV
Storage shelf life	12 to 16 months
Storage conditions	Dry, no direct sunlight up to 35°C

No leakage **Waterproof** **Oil proof** **Microwave safe**

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CRISP BAGS

Crisp bags represent the next-gen produce bags, crafted from fully compostable materials with laminated NK, Pbat & PBS, or BioPLA, Pbat & PBS lining. Ideal for a wide range of fresh foods, including fruits and vegetables.

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MATERIAL & PRODUCT DATA SHEET
CRISP BAGS

Bag sizes	Customizable
Bag materials	NK/PBAT/PBS (Home compostable) PLA/PBAT/PBS (Industrial compostable)
Bag material thickness	From 40 to 120um, standard 55um
Bag color	90% Transparency
Printable	Yes
Average bag weight	9.26g at 55um thick
Estimated loading bag capacity	up to 5 lbs.
Biodegradable	Yes
Compostable	Yes
Bag operating heat temp. range	up to 100°C
Bag operating cold temp. range	up to -29°C
Estimated microwave usage time	up to 5 minutes
Bag behavior in cold storage	up to 12 months
Vegetable & fruit contact impact	Passes FDA migration testing
Bag seal & zipper material	Modified PBAT, zipper easy to open but spill-proof mechanism
Bag certificates	TUV, BPI Industrial compost
Storage shelf life	18 months
Storage conditions	Dry, no direct sunlight up to 30°C

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CRISP VACUUM BAGS

Crisp vacuum bags feature a two-layer composite surface with a high-barrier coating and are completely biodegradable. They are available in various options: two-sided glossy, one side glossy and one side embossed, or two sides embossed, with the flexibility of one to three-side sealing.

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MATERIAL & PRODUCT DATA SHEET
CRISP VACUUM BAGS

Bag sizes	Customizable
Bag materials	Cellulose film/PBAT modified
Bag material thickness range	From 50 to 150um, standard 55um
Bag color	90% Transparency
Printable	Yes
Use	Industrial and home machines
Vacuum period	up to 90 days
Biodegradable	Yes
Compostable	Yes
Width range	up to 580mm
Length range	up to 800mm
Bag operating temp. range	-20°C to 120°C
Water vapor transmission rate 38°C 90% RH	5- 90 g/m2 in 24hrs
Oxygen transmission rate 23°C 0% RH	0.3-6 cc/m2 in 24hrs
Sealing temperature	Starts at 120°C
Sealing strength	>= 20N
Bag certificates	TUV, BPI Industrial compost
Storage shelf life	18 months
Storage conditions	Dry, no direct sunlight up to 30°C

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DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

CERTIFICATE

Certificate holder	**Zhuhai Hengqin Huizefeng Packaging Technology Co., Ltd.** **Room 803, Wutongshu Building, Qinhaidonglu Road No.501,** **Hengqin new district, Zhuhai City,** **519000 GUANGDONG** **CHINA**
Product	Compostable intermediates for industrial composting
Type, Model	Film
Testing basis	DIN EN 13432:2000-12 Certification scheme Products made of compostable materials (DIN-Geprüft) (2017-10)
Mark of conformity	INDUSTRIELL KOMPOSTIERBAR DIN Geprüft
Registration No.	
Valid until	2027-11-30
Right of use	With this certificate the holder is granted the special entitlement for advertising purposes for the mark of conformity shown above in conjunction with the specified registration number. See annex for further information.

DAkkS Deutsche Akkreditierungsstelle D-ZE-11125-01-00

2021-11-24
Dipl.-Wi.-Ing. (FH) Sören Scholz
Head of Certification Body

GESELLSCHAFT FÜR KONFORMITÄTSBEWERTUNG mbH DIN CERTCO

DIN

CERTIFICATE
for Products

THIS IS TO CERTIFY that the following Items have been found to comply with the specifications established in the American Society for Testing and Materials standard ASTM D6400 in accordance with the terms and conditions of the "International Biodegradable Products Institute, Inc. Licensing & Certification Program for Compostable Products":

* Composite Bag HZF 101 / HZF201/ HZF501 [20220301-01]

as further described in the application and related information submitted to the Biodegradable Products Institute by Zhuhai Hengqin Huizefeng Packaging Technology Co., Ltd., (the "Licensee") a corporation of China.

Specific items associated with these certifications can be found on the BPI Product Catalog: https://products.bpiworld.org/companies/zhuhai-hengqin-huizefeng-packaging-technology-co-ltd

This Certificate authorizes the Licensee to use the Certification Program Logo depicted below in relation to such Products, subject to all conditions and terms of the Program Rules and the License Agreement between the Biodegradable Products Institute and the Licensee.

BPI COMPOSTABLE COMMERCIALLY COMPOSTABLE ONLY. FACILITIES MAY NOT EXIST IN YOUR AREA. CERT [redacted]

By: *Rhodes Yepsen*
BPI Executive Director
Valid until: July 31, 2025
Certificate #: [redacted]

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OUR

Contact

Dee Nathani

+1 437-996-9107

sales@ncdcorporation.com

Tal Adler

+1 416-358-3866

tal@ncdcorporation.com

www.ncdcorporation.com

WASTE DISPOSAL GUIDE

Waste Management

Waste management is the key to solving our planet's pollution problem.
The most important question to be answered is;
Where do I dispose a product without harming our planet?

MATERIAL / WHERE TO DISPOSE	LANDFILL (BIODEGRADABLE)	HOME COMPOST	INDUSTRIAL COMPOST	RECYCLE BIN	HOT WATER
BAGASSE	✓	✓	✓	✓	✗
CORNSTARCH	✓	✗	✗	✓	✗
WHEAT STRAW	✓	✗	✗	✓	✗
PAPER	✓	✓	✓	✓	✗
PLA	✗	✗	✓	✗	✗
BIRCHWOOD	✓	✓	✓	✓	✗
BAMBOO	✓	✓	✓	✓	✗
GLASS	✗	✗	✗	✓	✗
RPET	✗	✗	✗	✓	✗
PVOH	✓	✓	✓	✓	✓
ALUMINUM	✗	✗	✗	✓	✗

	PROCESS	DURATION	WHAT IT BECOMES
LANDFILL (TRASH) ✓	The product will disintegrate because it is made with natural fiber and plastic free, it is landfill biodegradable.	1 to 24 months	Gas & Leachate
HOME COMPOST ✓	The product will decompose in a home composting environment at lower temperature then an industrial facility, it ismade with natural fiber and plastic free.	30 to 180 days	Organic fertilizer
INDUSTRIAL COMPOST ✓	The product will not decompose in a home composting environment, it needs the higher temperature found at industrial facility, it is made with natural fiber and plastic free.	30 to 180 days	Organic fertilizer
RECYCLE BIN ✓	The product doesn't decompose in nature nor in industrial facility, it contains plastic, glass or aluminum and the best way to dispose of it, is to recycle it.	Recycle process	Paper, Plastic, Aluminum, etc.
HOT WATER ✓	The product dissolves instantly in hot water between 60°C and 90°C.	Dissolves Instantly	Water & Carbon Dioxide

****Always consult and follow your municipality waste management guidelines as it may differ depending on your location due to local laws and facilities.****

OUR PRODUCTS DO NOT IMPACT FOOD SECURITY

Thank You!

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