



BARRIER COATING PAPER & BOARD

Innovative Solutions for Eco-Friendly Paper-Based Packaging

Reducing Emissions for a Cleaner Future

THE THREAT OF MICROPLASTICS TO HUMAN HEALTH

Microplastics, tiny plastic particles, are now found in food, water, and the air we breathe. Studies Show:

- **5 grams of plastic-equal to a credit card-are ingested weekly**
- **Toxic chemicals like BPA and phthalates disrupt hormones, harm the immune system, and increase risks of cancer and infertility.**

Switching to microplastic-free solutions like Barrier Coating Paper & Board, we can protect public health and reduce plastic pollution also reduce emission for the environment.

MICROPLASTICS: A DANGER TO OUR ENVIRONMENT

World, once celebrated for its pristine beaches and lush landscapes, is now grappling with the devastating impact of microplastics:

- **Polluted beaches turning iconic destinations into waste zones**
- **Harm to marine life critical to ecosystem and economy**

The people and population of the world is getting sick due to harmful micro and nano plastic found in the bodies and blood circulation. Cancer and other carcinogenic diseases is on the rise.

Sustainable Development Goal (SDG) No. 3 & No.12

Our innovation supports the **United Nations' SDG Goal 12: Responsible Consumption and Production**. By offering sustainable packaging, we contribute to reducing waste and promoting eco-friendly practices, paving the way for a cleaner, more responsible future.

SDG no.3 - **good health and well being**. Our innovation also promotes good health and well being from dangerous of micro plastic intrusion to our body and carcinogenic / cancerous substance inside the plastic substances.

sgd no 14 - with reducing one time dispossable plastic packaging its greatly protect life under water and sustaining the marine life and future environment for all. Zero plastic waste that runs to ocean is big warning alarm for the planets

SUSTAINABLE DEVELOPMENT GOALS

NO. 3, 12 AND NO. 14.



THE SOLUTION?



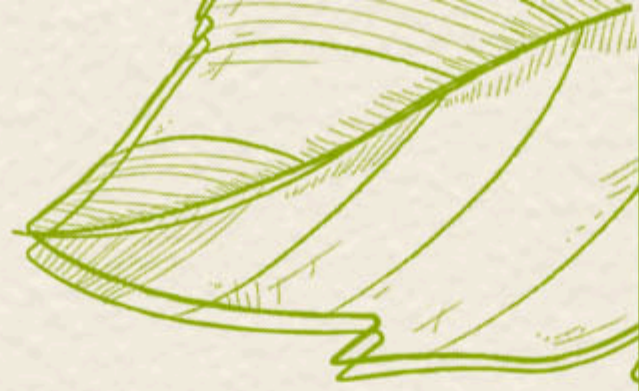
MODERN SOLUTIONS MADE FOR YOU.



Our solution is Barrier Coating Paper & Board, a biodegradable and recyclable packaging option. With a water-based coating, it is **food-grade compliant**, ensuring both food safety and environmental sustainability.

This product also promotes circularity in paper packaging **sustainability and is both recycling and compost compliant**. This makes it an ideal solution for companies seeking to transition to more eco-friendly and sustainable packaging.





WHAT IT IS?

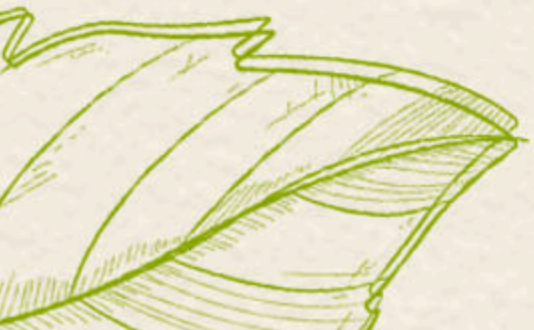
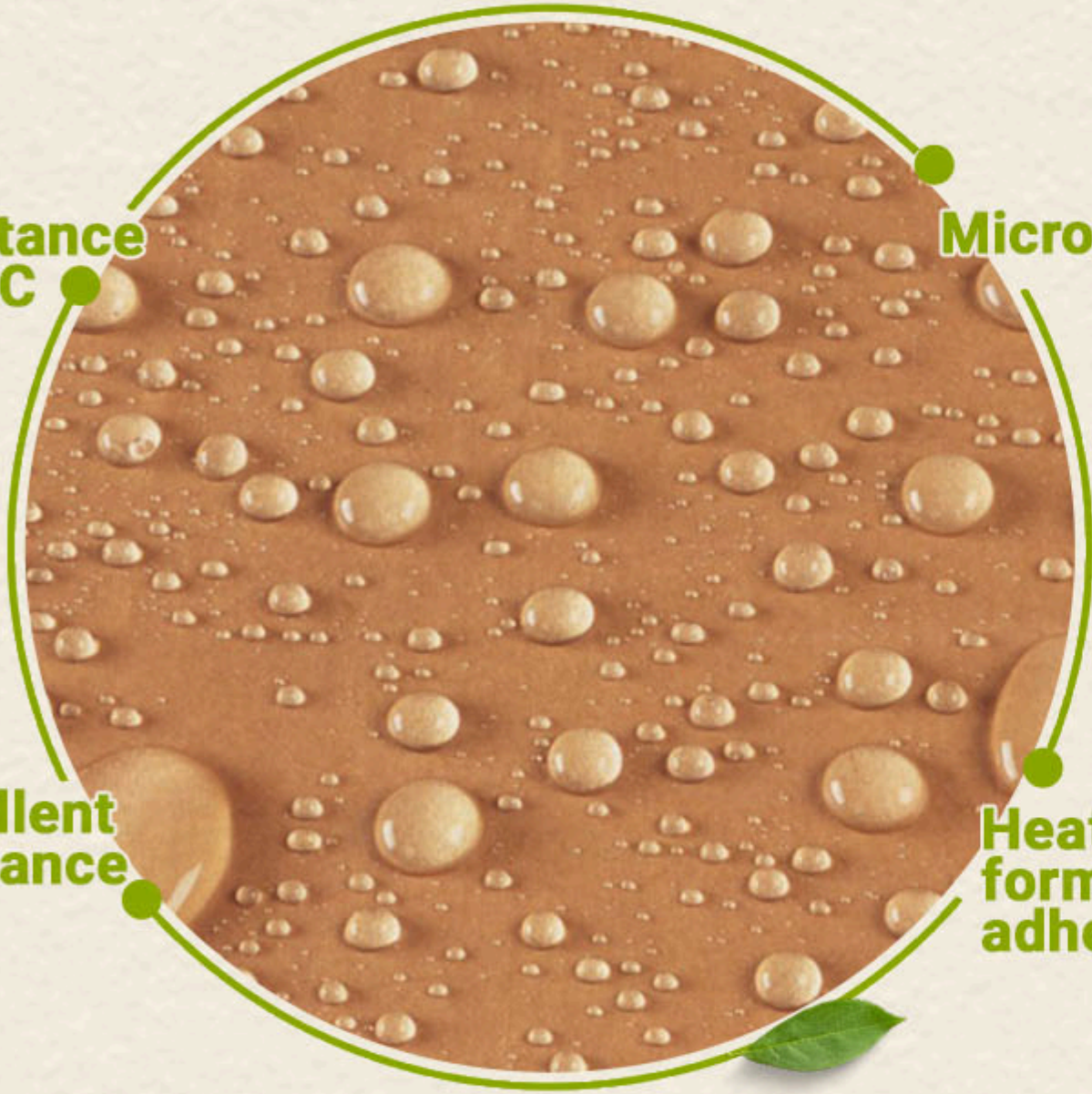


Heat resistance
up to 150°C

Microwaveable

Water repellent
& Oil resistance

Heat-sealable,
formable without
adhesives



Innovative paper-based packaging products, which eliminates the used of plastic/siliconize content lamination on the layers of paper in widely used food industry and other application for packaging.

BACKGROUND.



Most widely distributed food packaging is not eco-friendly and lacks food safety certification, often using hazardous materials like silicone, wax, paraffin, styrofoam, or polyethylene (PE). These carcinogenic materials contribute to global warming and emissions, worsening the current environmental crisis.

Government In Indonesia Our Regulations Regarding Waste Management:

1. Presidential Regulation No. 97 of 2017

This regulation establishes the National Policy and Strategy (JAKSTRANAS) for the management of household waste and similar types of waste.

2. Law No. 18 of 2008

This law governs waste management across Indonesia, aiming to promote environmentally sustainable waste handling practices.

3. Government Regulation No. 81 of 2012

This regulation concerns the management of household waste and similar types of waste, focusing on effective and efficient waste collection, reduction, and processing.

4. Ministry of Environment and Forestry Regulation P.75 of 2019

This regulation outlines the Roadmap for Waste Reduction by Producers, setting targets for waste reduction initiatives led by industries and producers across Indonesia.

VISION & MISSION



VISION :

To promote a healthy life without plastic.

to promote greener alternative for one time
disposable plastic food packaging.

MISSION:

To become the leading packaging company in Indonesia,
providing high-quality, plastic-free packaging.

To actively contribute to government-backed "go green" initiatives,
helping protect the Earth from the circulation of harmful plastic.

EG TECH CERTIFICATION



- **FSC Chain of Custody Certification (SGS)**

- **FDA Compliance Certification**

- **Halogen Certification**

- **ROHS Certification**

- **Halal Certification (On Progress)**

- **SGS certification on singapore food safety act compliance.**

intertek
Total Quality Assured.

Report Number: **JKT23001824**

ORIGINAL

Test Report


Applicant: PT Melabox Internasional
Dsn Seban, Ds Tanjungrono
Kec Ngono Kab Mojokerto
Jawa Timur 61365

Date: Jun 22, 2023

Attn: Resti Ditasari

Sample description:
One (1) piece of submitted sample said to be:

Material Name: **Brown Paper (Test Liner and Corrugated Medium)**
Country of Origin: **Indonesia**
Manufacturers Name: **Melabox Internasional, PT**
Date sample received: **Jun 12, 2023**
Testing period: **Jun 12, 2023 to Jun 22, 2023**



Test conducted:
As requested by the applicant, for details please refer to attached pages.

Remark:
Test subcontracted to Intertek Taiwan.

Prepared and checked by:
For Intertek Indonesia

Made Widyani
Operation Manager - Testing

KS - GCRH - 001

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Page 1 of 4

Certificate SGS#K-CCC-440008
The Organization

PT. Eco Paper Indonesia
Kp. Padaash RT 009 RW 004, Padaash, Cibogo, Subang
Jawa Barat, 41285, Indonesia

has been assessed and certified as meeting the requirements of

FSC® Chain-of-Custody
The company was assessed against the following standard:
FSC-COC-40-004 Version 3.0 FSC Standard for Chain of Custody Certification - April 2017, FSC-STD-40-007 V3-0 Sourcing recycled material for use in FSC Product Groups or FSC Certified Products - April 2011
FSC-COC-40-001 Requirements for Use of the FSC trademarks by Certificate Holders

for the products included in the scope below

The purchasing of reclaimed papers (mix waste paper, waste cones, waste core, and old corrugated cartons), manufacturing using transfer system and sales FSC recycled products (paperboard, liner and fluting)

This certificate is valid from 31 October 2021 until 30 October 2026 and remains valid subject to satisfactory surveillance audits. Re-certification audit due 90 days prior to expiry date. Issue 4. Certified since October 2016 SGS file# CUC02175

Authorized by

SGS Hong Kong Limited
Units X31 & X32, 3/F, Building 12E, Phase 3,
Hong Kong Science Park, New Territories, Hong Kong
+852 2354 6811 / +852 2353 2257 www.sgs.com

The validity of this certificate depends on the company's compliance with the FSC Chain of Custody program according to the certificate scope. The FSC logo and other program elements may be used on the certificate when the company is in compliance with the FSC Chain of Custody program. The certificate holder can only be considered compliant for the scope of the certificate when the required FSC labels are placed on the products and related documents. The certificate holder is responsible for ensuring that the certificate is used in accordance with the FSC Chain of Custody program. The certificate holder is responsible for ensuring that the certificate is used in accordance with the FSC Chain of Custody program.

Page 1 of 1

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FSC® A200623
The mark of responsible forestry

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Sub Dept. General Chemical Laboratory
MUSOPINDO
Almalla Achmad

CBT101.5.01007224

4062279

SGI-2023A

IDSurvey
Report No. 45250/BANBPAPAR
Date: August 14, 2024

Reporting Office:
Jl. Arah Tar Ceking No. 1, Cikarang Selatan 17132, Indonesia
Phone/Fax: +62 21 88321176/21 88321186
Email: cs.id@idsurvey.com

REPORT OF ANALYSIS

The following sample was submitted and identified by the client as:

CLIENT : ECO PAPER INDONESIA, PT
Kp. Padaash, RT. 09, RW. 04
Desa Padaash, Kec. Cibogo,
Kab. Subang, Provinsi Jawa Barat

SAMPLE NAME : B-KRAFT 275

DATE RECEIVED : August 1, 2024

DATE OF ANALYSIS : August 2 - 14, 2024

TEST REQUIRED : RoHS Standard Contains of Lead (Pb), Cadmium (Cd), Chromium Hexavalent (Cr^{VI}), Mercury (Hg), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), and Phthalates (DEHP, DBP, BBP, DIBP) as specified with Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

We have tested the submitted sample as requested and the following results were obtained

The Attachment available is an integral part of this report.

The test result is valid in the scope of the submitted sample and the responsibility cannot be transferred to any other party and will be your responsibility to verify the test results. The performance of the test is subject to the terms and conditions of the contract and a suitable test method is used for the test.

Sub Dept. General Chemical Laboratory
MUSOPINDO
Almalla Achmad

CBT101.5.01007224

4062279

SGI-2023A

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CERTIFICATE OF ANALYSIS

Company : PT ECO PAPER INDONESIA
Address : KP. PADAASH, RT. 09, RW. 04 DESA, PADAASH, KEC. CIBOGO, KAB. SUBANG
Attention : Mr. NIKO

Number : JKT2400096
Date : 24 August 2024

Sample Information :

No	Sample Number	Sample Description
1	2400096	B-Kraft 275

Date of Sample Received : 9 August 2024
Date of Analysis : 21 - 23 August 2024

Tests Conducted :

As requested by the Applicant, for details please refer to the attached pages

Approved Signature for :

Johanna Kusliawan
PT. Intertek Utama Services
Johanna Kusliawan
Laboratory Manager

"The results of these tests relate only to the sample(s) submitted. This report must not be reproduced in part or in full without written authority from the management of Intertek - Indonesia."

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Page 1 of 3

SGS
Test Report
Date: 08 Jan 2025
Page 1 of 3

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Name : Non Plastic Recyclable Lunch Box

Sample Receiving Date : 20 Dec 2024
Testing Period : 23 Dec 2024 to 08 Jan 2025

Test Requested : Please refer to the result summary.
Test Method & Result(s) : Please refer to next page(s).
Result Summary :

Test Requested	Conclusion
1. Singapore Food Act Regulations 37(2) under Sale of Food Act (Chapter 283, Section 56(1)), G.N. No. S444/2012 - Leachable Lead, Cadmium, Arsenic and Antimony	PASS

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd

Y C Tham
Y C Tham (Ms)
Technical Manager, Multi-Lab

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ADVANTAGE FOR THE ENVIRONMENT: A SUSTAINABLE TURNAROUND

By adopting Barrier Coating Paper & Board, We can:

- **Lead the charge in eco-friendly tourism by eliminating plastic waste**
- **Enhance its reputation as a world-class destination committed to sustainability**
- **Safeguard marine ecosystems and restore the natural beauty that attracts millions of tourists annually**

This shift is not just about packaging; it's about preserving cultural and environmental heritage for generations to come.

PRODUCT & SERVICE

Receive coating service request for brand owners according to the required specifications





VALUES
WE
DELIVER



BY CHOOSING BARRIER COATING PAPER & BOARD, YOU GAIN:



- **Environmental Impact:** A significant reduction in plastic pollution and carbon emissions.
- **Health Assurance :** Products that are safe for consumers, free from harmful materials.
- **Brand Value :** Align with global sustainability trends to attract eco - conscious customers .
- **Economic Growth :** Sustainable practices that enhance tourism and support local industries.
- **Future-Proof Solutions:** Stay ahead of regulations banning single-use plastics and gain a competitive edge.

WHO IS INTERESTED?

LOCAL



Digital Printing



Small Businesses



Community



Online Platform



Brand Owner

INTERNATIONAL



Import-Export



Converter

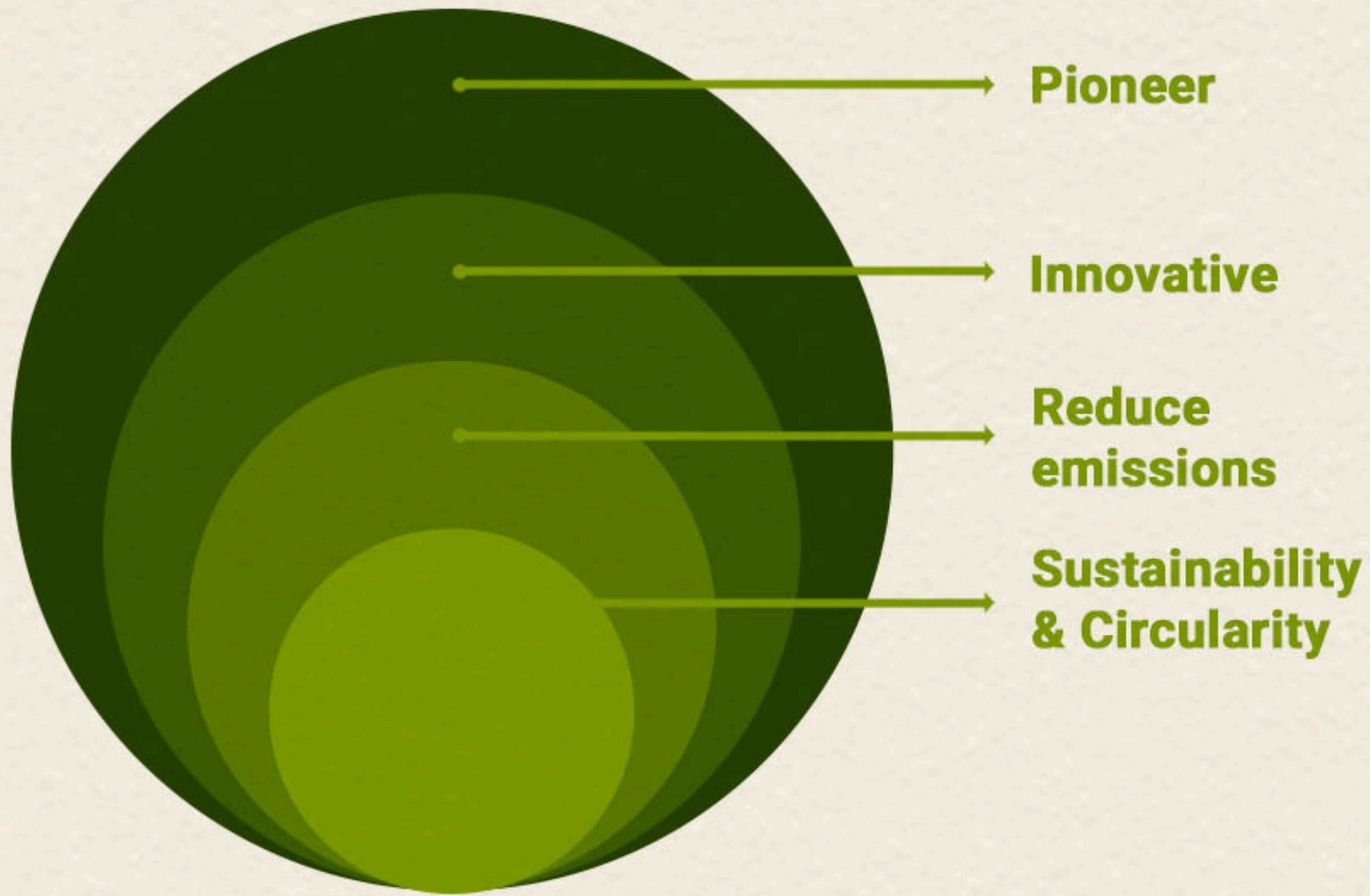


Paper Distributor



Brand Owner

MARKET OPPERTUNITY & COMPETITION



Barrier coating for paper and board offers a market opportunity with **innovative technology** that reduces emissions, pioneers the industry, and delivers premium quality and sustainability—making it the ideal choice for businesses committed to eco-friendly practices.

The global plastic packaging market was valued at 413.9 billion U.S. dollars in 2024. The market is forecast to reach almost 637 billion U.S. dollars by 2034, registering a compound annual growth rate of 4.4 percent during the forecast period 2025 to 2034. 50% of the above size is cater for food packaging industries, where greater opportunity prevail in promoting alternative and replacement for a one time disposable use of plastic based material.

The world urgently needs hygienic, environmentally friendly packaging solutions that reduce plastic consumption globally.

WHAT IS WATERBASED COATING?

Water based coating is a new innovative products which is uses natural and biodegradable material and can be degrade by natural means into soil and its natural form within 60-90 days.



TABLE COMPARISON BETWEEN CONVENTIONAL PE PLASTIC LAMINATION FOOD PACKAGING AND OUR WATERBASED BARRIER COATING

TABLE COMPARISON BETWEEN PE (PLASTIC LAMINATION) & BARRIER COATING WATER BASED

NO.	DESCRIPTION	PLASTIC (PE)	WATER BASED BARRIER COAT
1	WATER RESISTANCE	Y	Y
2	OIL AND GREASE RESISTANCE	Y	Y
3	HEAT SEALABLE	Y	Y
4	MICROWAVEABLE	N	Y
5	RECYCLEABLE	Y	Y
6	BIODEGRADABLE	N	Y
7	COMPOSTABLE	N	Y
8	EMISSION REDUCTION	N	Y
9	SYNTHETIC MIGRATION	Y	N
10	CARSINOGENIC	Y	N
11	SUSTAINABLE	N	Y

LEGEND:

**** Y = YES**

**** N = NO**

**** BIODEGRADABLE - CAN BE DEGRADE BY ANY TYPES OF BIO FORM OR NATURAL FORM**

**** SYNTHETIC MIGRATION - MIGRATION OF ANY SYNTHETIC MATERIAL OR SUSBTANCES INTO HUMAN BODY SYSTEM**

EXAMPLES: MICRO PLASTICS AND OTHERS

**** CARSINOGENIC - CONTAINED SUBSTANCES FOR MAIN CAUSED OF ALL CANCER**

**TOGETHER, WE CAN CREATE A CLEANER, SAFER,
AND MORE SUSTAINABLE FOR THE OUR PLANET
FUTURE FOR THE PLANET, THE WORLD, AND THE
GENERATIONS TO COME**



THANK YOU FOR ATTENTION!



Let's work together to create a greener and more sustainable future with eco-friendly packaging solutions. Contact us now to learn how you can switch to Barrier Coating Paper & Board and contribute to reducing environmental impact.