

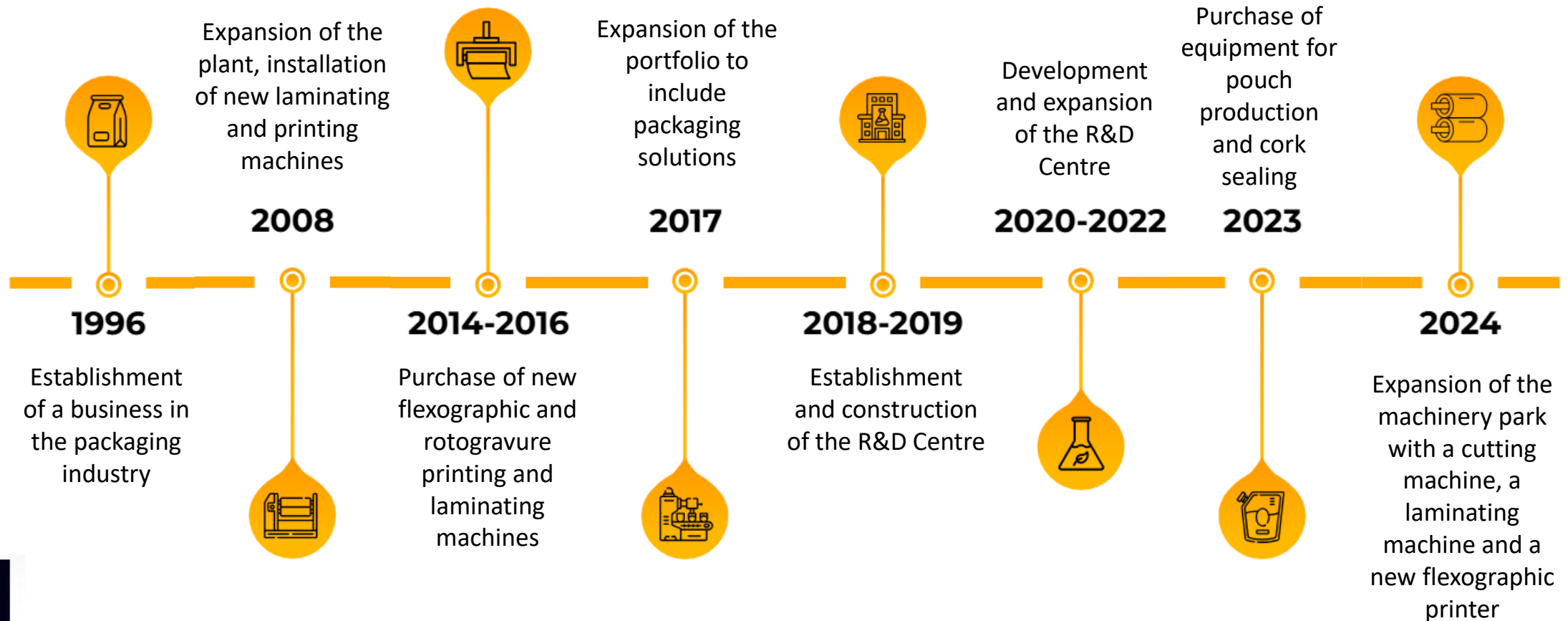


A RELIABLE BUSINESS PARTNER

Together we can change the packaging industry



HISTORY



KB FOLIE POLSKA



240
employees


> 65 mln €
revenues per
year



1000 tons
packaging
per month

3
production
plants

1000 tons
packaging
per month




almost
30 years
in a market




1000 tons
packaging
per month


180 mln m²
packaging
produced
per year



4 flexo
&
2 roto
machines



16
packaging &
enhancing
machines

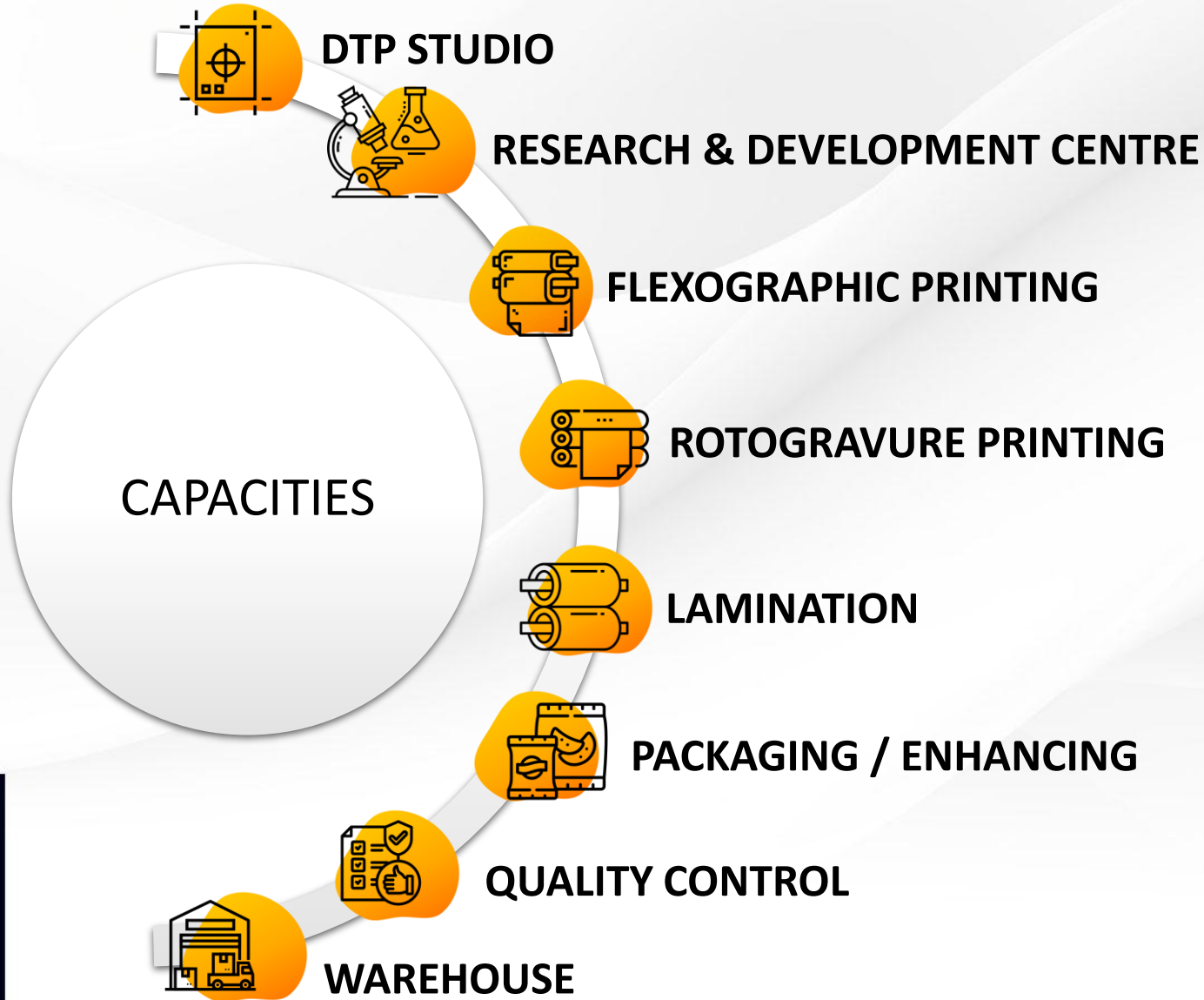


6
laminating
machines

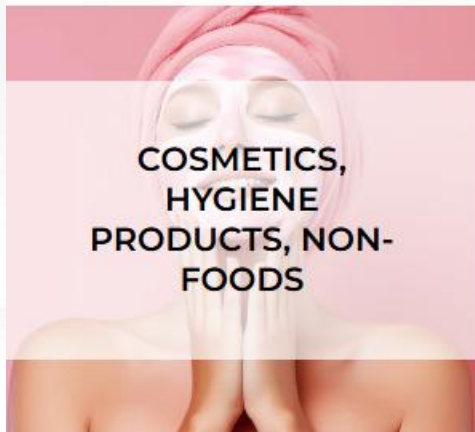
QUALITY SIGNS



PRODUCTION



EXAMPLES OF PACKAGED PRODUCTS



PRODUCTS

MONO-MATERIAL FILMS

- Depending on customer preferences, we offer rotogravure and flexographic printing on a variety of substrates.
- This type of packaging is mainly used for fresh food with a short shelf life, frozen food, confectionery and household chemicals.
- Mono-material films can be refined by adding cold-seal coating, laser cutting, perforations, antifog coating and many other features.



PRODUCTS

LAMINATES

- We specialize in the production of **multilayer laminates** tailored to the specific characteristics of a product. By using a diverse range of materials, our laminates meet individual customer needs and expectations.
- For the packaging of demanding products such as **cheese, cold cuts, fresh meat, fish or ready meals, we offer high-barrier laminates**. For some solutions, we offer films with an **'easy peel'** function for easier opening of the film sealed with the tray.



PRODUCTS

READY-MADE PACKAGING

- Our packaging line offers comprehensive solutions that **guarantee not only safety and hygiene, but also easy transport and storage.**
- The laminates can be used for packaging **baby food, fruit purees and snacks or pet food.**

Depending on the type of the packaged products, there is an option to **incorporate a closure (standard, velcro, childproof), laser-cut notch for easy opening, a cork or simple sachets.**



PRODUCTS

READY-MADE PACKAGING

- Depending on the specific nature of the packaged product, we select the appropriate four-, three- or two-layer laminates, taking into account the required thermal processing such as **pasteurisation or sterilisation.**
- We also produce **mono-material PE/PE laminates** designed for **doypacks for soap and liquid detergents.**



PRODUCTS

PACKAGING ENHANCING:

Laser cutting + perforations

We offer our customers the option of laser-finishing of packaging. Laser-cut notches make it easier to open the packaging, without losing the barrier properties.

In addition, perforations are used when it is necessary to drain moisture from the packaged product (for example **fresh vegetables**). Laser perforations not only improve the quality and functionality of packaging, but also make the product look more appealing on supermarket shelves and increase its market value.



PRODUCTS

ADDITIONAL SERVICES:

Cold-seal coating application

For packaging products that cannot be heat-sealed, we offer cold-seal coated laminates/foils. This solution allows for easier opening and resealing of the packaging. It is most commonly used for the **packaging of chocolate, bars, chocolate-covered foods and ice cream.**



PRODUCTS

ADDITIONAL SERVICES:

Barrier and sealable coatings

One of our environmental-friendly solutions is recyclable paper packaging with sealable coating. It is an alternative to the plastic packaging, for such products as tea bags.

We also offer a range of oil-, grease- and oxygen-proof barrier papers that can be printed.

All our paper packaging solutions are recyclable, as confirmed by independent certification bodies.



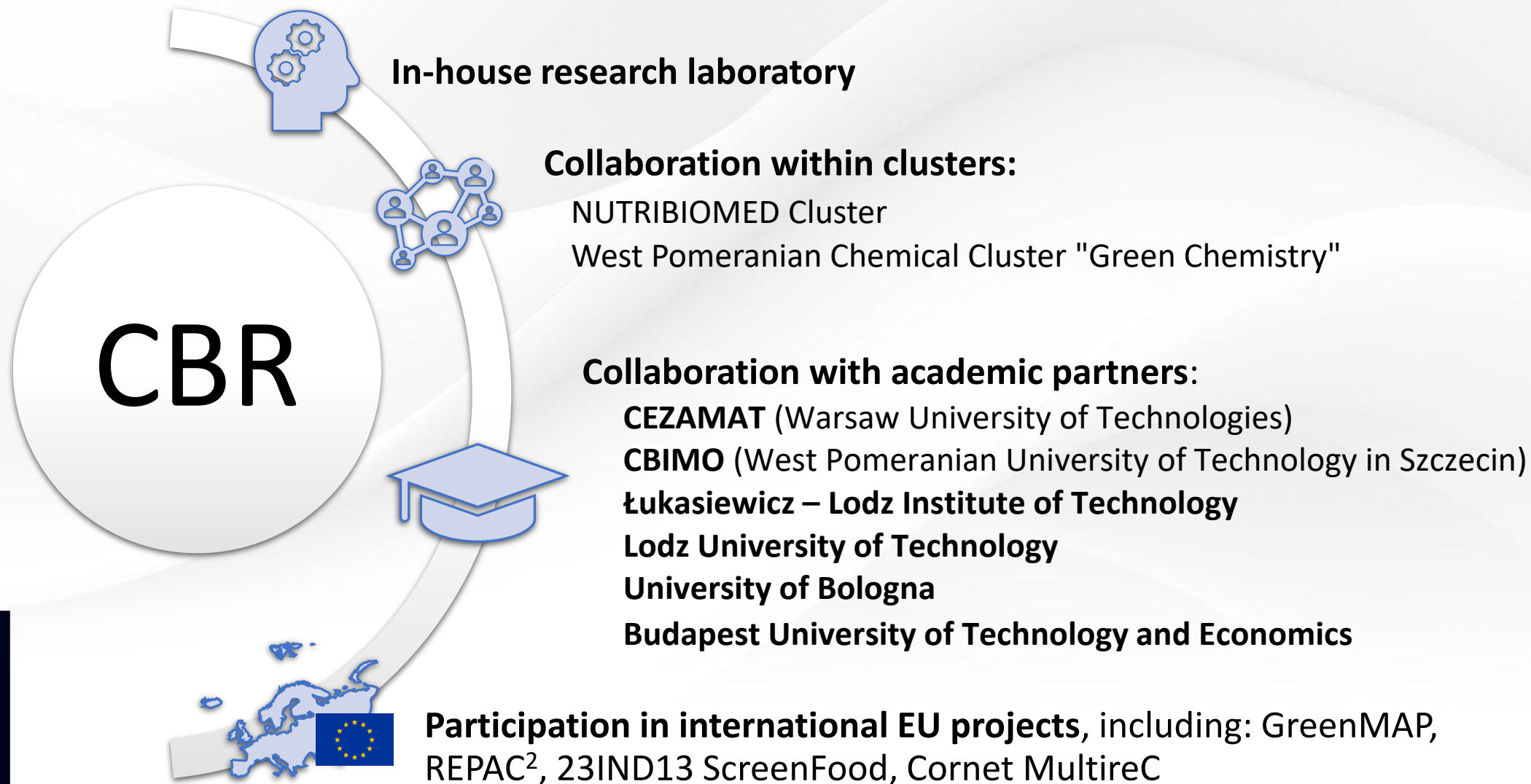
RESEARCH & DEVELOPMENT CENTRE

As part of the established R&D Center:

- Laboratory and office space was increased (by 900 m²);
- Warehouse space was enlarged by an additional 600 pallet spaces;
- 1,500 m² of industrial halls were introduced for R&D and industrial testing.



RESEARCH & DEVELOPMENT CENTRE



RESEARCH & DEVELOPMENT CENTRE

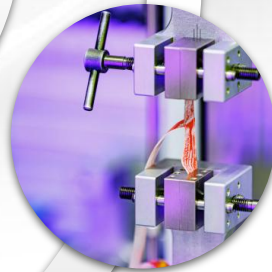
CBR



Oxygen (OTR) and water vapor (WVTR) permeability testing



Analysis of packaging structure (Raman spectrometer)
Determination of residual volatile organic compounds in films, laminates and finished products (gas chromatography)



Determination of tensile strength and elongation at break (according to DIN EN ISO 527)
Determination of delamination force (according to PN-88 C-89099)
Determination of strength of hot welded joints (Hot Tack tester)
Determination of friction force (according to DIN EN ISO 8295)



Simulation of sterilization and pasteurization processes (autoclave, water bath)

RESEARCH & DEVELOPMENT CENTRE

CBR



Designing mono-material packaging with barrier properties, subjected to thermal treatment (pasteurization or sterilization)



Development of innovative composite “EkoPAK” materials, based on the guidelines and assumptions of the **circular economy and bioeconomy** for use in various industries, including the packaging industry.



Development of “ProACTIVE” packaging solutions, which improve selected parameters during transport and storage, guaranteeing the high quality of the packaged products and, in the case of foods, extending their shelf life.



Designing new smart packaging of the “SmartPAK” series, i.e., packaging that includes an interactive indicator that monitors the condition inside the package, achieved through surface printing technology.

OUR STRATEGY

**CIRCULAR
ECONOMY**



**Recyclable plastic
packaging**



**Recyclable paper
packaging**



CIRCULAR ECONOMY

CIRCULAR ECONOMY

- **12.2015** – Plan and strategy for plastics challenges;
- **2017** – Confirmation of focus on the issue of plastic production and use: by 2030, all plastic packaging should be recyclable;
- **05.2018** – Draft of the Directive of the European Parliament and the Council on reducing the environmental impact of certain plastic products;
- **06.2019** – adoption of the so-called Plastics Directive.
- **12.2024** – adoption of the Packaging and Packaging Waste Regulation (PPWR)

The importance of recycleability will increase due to the high recycling levels in the 2025-2030 timeframe, introduced by Directive (EU) 2018/852.

For plastic packaging, they are 50% in 2025 and 55% in 2030.

OUR STRATEGY

Replacement of PET/PE structure with recyclable PE/PE structure



nr PP/16/4a/20



CERTYFIKAT
nr **PP/16/5/23**
na znak przydatności do ponownego przetwórstwa

Łukasiewicz - Łódzki Instytut Technologiczny
Dział Certyfikacji Wyrobów Papierowych i Opakowań COBRO
przyznaje prawo do oznaczania znakiem przydatności do ponownego przetwórstwa

następującego opakowania:

Nazwa opakowania: Materiał opakowaniowy i opakowania typu doypack o poj. 0,3 - 1,7 dm ³ z zadrukowanego laminatu PE/PE bez bariery EVOH, z korkiem z PE
Dokument identyfikujący: DT Producenta

1. Posiadacz certyfikatu: **KB Folie Polska Sp. z o.o., ul. Biezuńska 2b, 03-578 Warszawa**
2. Producent opakowania: **KB Folie Polska Sp. z o.o., ul. Biezuńska 2b, 03-578 Warszawa**
3. Opakowanie spełnia wymagania zawarte w: **Kryteria Techniczne nr KT/DC/17 wyd. 9, 2023**
4. Program certyfikacji: **COBRO-PP**
5. Prawa i obowiązki posiadacza certyfikatu określone zostały w Umowie nr **DC/2-PP/20** z dnia **2020.06.29**
6. Data ważności certyfikatu: od **2023.12.04** do **2026.12.03**

Dział Certyfikacji Wyrobów Papierowych i Opakowań COBRO
KIEROWNIK
Ewa Kópczyńska
dr inż. Ewa Kópczyńska

Sieć Badawcza Łukasiewicz
Łódzki Instytut Technologiczny
DYREKTOR
z up. Beata Górnica
dr Radosław Dziuba

Warszawa, 2023.12.04

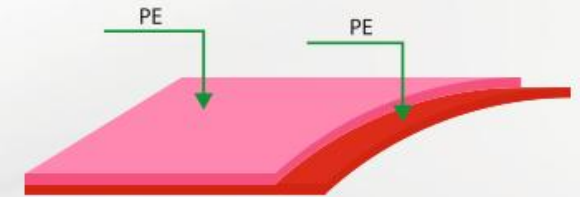
Mono-material PE-based laminate

Suitable for recycling



Features:

- Outstanding puncture resistance during drop
- Exceptional tightness
- Low sealing temperature
- Very good mechanical properties
- Fully recyclable structure



Barrier parameters:

Water Vapor Transmission Rate (WVTR) < 3.0 g/m²/24 h 38°C, 90% RH

Oxygen Transmission Rate (OTR)

*possibility to add a barrier layer according to the requirements of the packaged product

Applications:

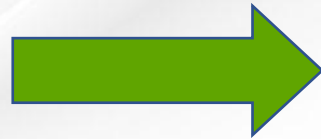
Perfect structure for doypack with spout forming. The packaging is suitable for liquid products (with volumes of even up to 2 l) e.g. liquid soaps, shampoos, shower gels and bubble baths.

OUR STRATEGY

Replacement of PET/Al/PE structure with recyclable PE/EVOH/PE structure



PET/Al/PE



PE/EVOH/PE

Certificate
Made for Recycling
KB Folie Polska Sp.z o.o.

We hereby confirm the recyclability of the following packaging:
PE/EVOH barrier/PE printed film

Test result
Good
16 of 20 points

Test criteria	Score
Assignability to the collection system	2 of 2
Sortability of the packaging	6 of 6
Suitability for mechanical recycling	8 of 12

Testing standard: Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated:

This certificate 1967 is valid until 13.03.2025 (two years after issue). Any change in the packaging components will render this certificate invalid.
Cologne, dated 15.03.2023

Test and evaluation executed by
INTERSEROH+ GmbH

Evaluation methodology developed by
bifa Umweltinstitut GmbH

Maria Nizla-Direkt
Managing Director
INTERSEROH+ GmbH

Prof. Dr. Maria Ulichewskum
Managing Director
Interzero Plastica Innovations d.o.o.

bifa Umweltinstitut

interzero
100% recycelbar

OUR STRATEGY

Replacement of PET/PETmet/PE structure with recyclable PE/EVOH/PE structure



PET/PETmet/PE



PE/EVOH/PE



interseroh+
Die Recycling-Allianz

Certificate
Made for Recycling
KB Folie Polska Sp. z o.o.

We hereby confirm the recyclability of the following packaging:
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Manuela Miller-Orens
Managing Director
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Manuela Ullrich-Kump
Managing Director
Interzero Plastics Innovations s.r.o.

bifa Umweltinstitut
Prof. Dr.-Ing. Wolfgang Rimmel
Managing Director

interzero
zero waste solutions

Mono-material PE-based laminate

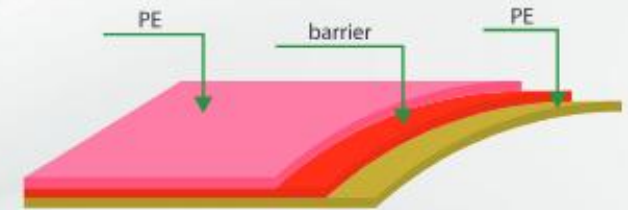
Suitable for hot-filling

Suitable for recycling



Features:

- Good barrier properties
- High flexibility
- Rotogravure and flexography printing possible
- Fully recyclable structure



Barrier parameters:

Water Vapor Transmission Rate (WVTR) < 5.0 g/m²/24 h 38°C, 90% RH
 Oxygen Transmission Rate (OTR) < 3.0 cm³/m²/24 h 23°C, 0% RH

Applications:

Perfect structure for spouted pouch forming. The packaging is suitable for hot-filled products (up to 85°C, e.g. fruit mousses, smoothies) or dairy products (e.g. yoghurts, creams, puddings).



www.kbfolie.pl

sales@kbfolie.pl

We are looking forward to our cooperation !

Together we can change the packaging industry

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+48 22 679 99 27

Production plant, Brzeziny Branch
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