



BIOTEN
PACKAGING

ENGLISH EDITION

BASF
We create chemistry

dbc
生物降解 · 创新食品应用

More sustainable paper cups & food packaging

Built on consistent quality and food-contact safety

**Transparent sourcing.
Clear accountability.**

Know who supplies your materials and who stands behind quality and service.

BIOTEN

PACKAGING

ONE COATING. MANY FORMATS.

PHA WATER-BASED
BARRIER COATING



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生物降解
PhaBuilder

DIN
CERTCO

Australasian
Bioplastics
ASSOCIATION

SBPI

industrially
compostable

● SUPD compliance support

BARRIER COATINGS / COATED PAPER / CUP & BOWL BLANKS / FOOD PACKAGING

2 water-based systems · 4 ways to source

Coating speed

8×

Up to 1,200 m/min
800 vs 100 m/min (conventional)

Cup forming

350

cups/min · max.

PHA water barrier

<6

g/m² · Cobb₆₀

PHA grease barrier

12

Kit rating · max.

Food-contact compliance

Material selection and application validation support for US FDA, EU, China, Japan, Korea and Australia/New Zealand requirements. All grades are formulated without intentionally added PFAS.

Key requirements: 21 CFR 176; (EC) 1935/2004 and 2023/2006; GB 4806 series. See page 3.

Recycling & compostability

PTS paper-sample test: >95% fiber yield; recyclable with limitations. PHA compostability certified by ABA, DIN CERTCO and BPI for selected grades and structures. Commercial/industrial and home scopes vary by certificate; see page 3.

SUPD compliance support

For PHA-coated paper packaging, we help you assess whether and how the EU Single-Use Plastics Directive (SUPD) applies, considering the base paper, coating, finished structure and target market. Grade details: page 3.

Give your paper cups a competitive edge

Transparent sourcing. Clear accountability.

Multiple safeguards for yield, secure and stable supply, consistent quality and food-contact safety.



Four ways to source

Materials · Coating · Converting

Products & services



Barrier coatings

Acrylic / bio-based PHA emulsions

Supply partners & roles

MATERIALS & TECHNOLOGY

BASF x DBC



BRAND & PRODUCTS

BIOTEN

Emulsion supply, material selection and coating-process support



Water-based coated paper

Strategic supply partners

Base-paper selection and coating
Paper and board in reels or sheets



APP

APP (Sinar Mas Group)

Integrated forestry, pulp and paper
Base paper and water-based coating
Food-grade paper and board
Supplied in reels or sheets



TPU Supplies (Jinyinlian)

Specialist water-based coating
Multi-brand base-paper sourcing
28-450 g/m² food-grade stock
Mills: Sun Paper, Stora Enso, UPM, APP, Bohui and others



Cup & bowl blanks

Printing, die-cutting and forming
Made to cup and bowl specs



Food packaging

Paper cups, bowls, food bags
Custom sizes to suit your application

BIOTEN | PROVEN PARTNERS FOR BLANKS AND FINISHED PACKAGING

Lidopack

Lido Packaging



Leepack

Both partners offer printing, die-cutting, forming and custom packaging

Global Partnership Program

Global limit per category

Water-based coated paper

5

strategic

5

VIP

Food packaging

5

strategic

5

VIP

Material sources, partner status, supply scope and service responsibilities can all be verified by official email or a valid letter of authorization.

Two systems. Three grades.

Choose by cost, converting speed and end-of-life needs.



WATER-BASED ACRYLIC

BIO-BASED PHA

4110 BIOTEN PLUS	4108 BIOTEN PLUS	1030 BIOTEN PRO
Water-based acrylic barrier emulsion	Bio-based PHA water-based composite emulsion	Bio-based PHA water-based barrier emulsion
Why choose it Compared with PLA-coated paper: About 60% less coating material Significantly lower procurement cost Clearly better barrier performance	Why choose it Cup-forming speeds close to those achieved with PE-coated paper	Why choose it High-speed cup forming with a BPI-certified coating material
Cup-forming speed (ref.) · cups/min 120-180	Cup-forming speed (ref.) · cups/min 150-260	Cup-forming speed (ref.) · cups/min 150-350
Bottom sealing · machine setpoint 350°C	Bottom sealing · machine setpoint 320°C	Bottom sealing · machine setpoint 150°C
Recycling & compostability PTS paper sample: >95% fiber yield Recyclable with limitations	Recycling & compostability Recycling: high repulpability Composting: commercial & home Both to be validated per structure	Recycling & compostability Recycling: high repulpability Composting: commercial & home ABA, DIN CERTCO, BPI
Notes As production scales up, coated-paper cost is expected to approach that of PE-coated paper by March 2027	Notes Bio-based carbon >25% of total organic carbon, meeting T/SAFCM 052-2026 (Shanghai); very low VOC (<2 g/L)	Notes PHA barrier coating material already on the market; BPI-certified for commercial and home composting

Process, compliance & end of life

Side-seam sealing: ~200°C for all three grades (machine setpoint). 4108/1030 can be sealed without ultrasonic assistance.

PHA barrier: Cobb₆₀ <6 g/m²; grease resistance up to Kit 12.

Food-contact requirements

China: GB 4806.8-2022; GB 4806.10-2025.

US: 21 CFR 176.170 / 176.180, depending on food type.

EU: (EC) 1935/2004 and 2023/2006; (EU) 10/2011, 2024/3190 and national rules, depending on structure.

ANZ: Food Standards Code 1.1.1, 1.4.1, Schedule 19;
Australia: 3.2.2, clause 9.

Japan: Food Sanitation Act and synthetic-resin positive list.

Korea: MFDS rules for utensils, containers and packaging.

Composting & recycling evidence

DIN CERTCO: EN 13432 (industrial) / NF T 51-800 (home).

ABA: AS 4736 (commercial) / AS 5810 (home).

BPI: commercial & home compostable, per grade and certificate scope.

PTS: fiber yield applies to the tested sample only; not a recycling rate.

Coating speed: 800 vs 100 m/min for EAA and conventional acrylic emulsions = 8×. Production-proven at 800-1,200 m/min on high-speed coaters and paper machines—a key lever for efficiency and cost.

Seal temperatures are machine setpoints, not material heat-resistance limits. Food-contact, recycling, composting and SUPD claims must be confirmed for each structure and use with valid documentation. Material certification does not automatically extend to finished packaging.

Request specs, samples or a quote

Bioten@dbc.cn

Mobile +86 188 1799 8033

China hotline +86 400-677-9978

www.dbc.cn

DBC Group Innovation Center
Shanghai, China

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