

Baofeng Paper Box Technical Review: Kraft Board, PLA Coating

Material Selection, Barrier Performance and Foldable Box Construction

CALIFORNIA, CA, UNITED STATES, September 16, 2026 / EINPresswire.com/ -- Wenzhou Baofeng Packaging Technology Co., Ltd., a paper packaging converter founded in 1996 and based in Longgang, Wenzhou, Zhejiang Province, lists a 230gsm to 400gsm food-grade kraft board range, a PLA coating and a foldable construction in the specification for its disposable takeaway paper box, model BF-PB-003. The listed data covers board weight, coating function, customizable dimensions, printing options and certification status for a compostable food box directed at takeaway and delivery, bakery and pastry, fast food, catering, prepared meals and supermarket retail applications.



The logo of Wenzhou Baofeng Packaging Technology Co., Ltd.

This review breaks down the three technical areas that decide how such a box behaves in service — board weight and structural strength, coating chemistry and moisture resistance, and die-cutting and folding accuracy — and sets out the compliance record behind the product, the parameters the published specification leaves open, and the market and regulatory context in which buyers of kraft food boxes and [custom printed takeout boxes](#) are now assessing suppliers.

Industry Context: Fibre Packaging Demand Meets Two Regulatory Deadlines

The global paper packaging market was valued at USD 416.1 billion in 2025 and is projected to

reach USD 611.7 billion by 2033, according to Grand View Research. Estimates differ by research house depending on how broadly "paper packaging" is defined: Global Market Insights puts the same market at USD 410.5 billion and Fortune Business Insights at USD 392.28 billion, which indicates that the order of magnitude, rather than any single figure, is the reliable signal. Mordor Intelligence projects a compound annual growth rate of 4.63% for paper and paperboard packaging between 2026 and 2031.

Within that total, the segments closest to Baofeng's listed product line are expanding on a similar trajectory. The global paper lunch boxes market was valued at USD 2.06 billion in 2025 and is expected to reach USD 3.36 billion by 2034, according to The Insight Partners. Credence Research values the global kraft paper packaging market at USD 4.57 billion in 2024, rising to USD 7.39 billion by 2032. Grand View Research reports that Asia Pacific accounted for 39.0% of paper packaging revenue in 2025, and that the food and beverage segment held the largest share of the market at 35.0%.

The regulatory backdrop is tightening in parallel. The European Union's Packaging and Packaging Waste Regulation requires all packaging to be recyclable by 2030 and limits PFAS in food packaging, per the European Commission. In the United States, FDA 21 CFR Parts 170–199 regulate food contact substances, including the paper, coatings and adhesives used in food boxes, according to the U.S. Food and Drug Administration. For converters, the practical consequence is that substrate choice, coating chemistry and documentation are increasingly treated as part of the product specification rather than as a separate compliance exercise.

What the BF-PB-003 Specification States

The published data for the BF-PB-003 addresses material, forming, decoration and compliance in a single set of parameters. The following blocks reproduce the listed values without addition or interpretation.

MODEL
BF-PB-003

PRODUCT TYPE
Compostable food paper box / custom printed takeaway box

MATERIAL
Food-grade kraft paper with PLA coating

BOARD WEIGHT
230gsm to 400gsm

DIMENSIONS
Customizable (length × width × height); 15×10×5 cm and 20×15×8 cm are given as reference

formats

STRUCTURE

Foldable; supplied with or without a window, customizable

COATING FUNCTION

Grease-proof and water-proof

PRINTING

Custom logo and design printing available

CERTIFICATIONS LISTED

FDA, BRC and FSC compliant

DECLARED FEATURES

Microwave safe, compostable, leak-proof, grease-resistant

STATED APPLICATIONS

Takeaway and delivery, bakery and pastry, fast food, food service, catering, supermarket retail, prepared meals

Construction note: the published description covers a folding kraft-board box. It does not describe a corrugated construction, and no flute profile, single-wall or double-wall specification is listed for the BF-PB-003. Strength in this product is therefore defined by board weight, panel geometry and coating rather than by a corrugated medium.

Board Weight and Structural Strength

Board weight, expressed in grams per square metre, is the primary lever a buyer has over the rigidity of a paper box. Within the 230gsm to 400gsm range listed for the BF-PB-003, a higher board weight generally increases stiffness and resistance to compression and puncture, while a lower board weight reduces material use and cost. That relationship is standard across folding carton production and is not specific to any single supplier.

The specification does not publish a load-bearing, stacking or compression rating for the finished box. For wholesale takeout boxes, usable load capacity is determined by board weight, panel dimensions, fold and glue configuration and the way contents are distributed inside the container, rather than by a single fixed number. A deeper box with large unsupported panels will flex earlier than a shallow box of the same board weight, because the unsupported span is longer.

Where a defined load figure is required — for stacked delivery crates, for example — it is normally obtained by testing the filled, assembled box rather than by reading a board grade in

isolation. Buyers specifying custom paper boxes for a filling line should therefore expect to confirm capacity against an approved sample, since the listed dimension formats of 15×10×5 cm and 20×15×8 cm are reference sizes rather than fixed catalogue options.

Coating and Moisture Resistance: What PLA Delivers

The BF-PB-003 is coated with PLA, which the specification lists as providing grease-proof and water-proof performance, and the box is declared microwave safe, compostable, leak-proof and grease-resistant. Polylactic acid is a biobased and compostable polyester that is widely used in food-service fibre packaging as an alternative to conventional polyethylene coatings, a substitution that matters where a market's recyclability rules apply to coated fibre.

The published data answers the question "what kind of coating" but not the question "how much coating." No numeric water-resistance grade, barrier rating or coating weight is listed for the BF-PB-003. Moisture and grease performance in this product category is normally discussed in terms of coating type and applied coating weight rather than an indexed resistance number, so a buyer seeking a quantified barrier figure would need test data or a batch specification rather than the product sheet alone.

The regulatory direction explains why coating chemistry now sits inside the specification. The EU's Packaging and Packaging Waste Regulation limits PFAS in food packaging and requires all packaging to be recyclable by 2030, per the European Commission. PFAS substances have historically been used in some grease-resistant food packaging, and that restriction narrows the route and increases attention to alternatives such as PLA. In the United States, FDA 21 CFR Parts 170–199 remain the applicable framework for the paper, coating and adhesive components of a food box, according to the U.S. Food and Drug Administration.

Application records for this product show the coating specification being set by the end use. One listed programme is a retail-chain ice cream and dessert application requiring compostable material and AS5810 compliance. A second is a restaurant-chain takeaway programme requiring grease-proof and microwave-safe performance. A third covers cold and hot drink service for chain stores, where food-grade, leak-proof and custom-logo requirements are listed. The same scenario records pair the BF-PB-003 box with the company's BF-PC-001 paper cup, which is listed at 4oz to 20oz, 190gsm to 350gsm, PLA or PE coated, with a stated temperature resistance of –20°C to 100°C.

Die-Cutting, Folding and Dimensional Control

The BF-PB-003 is supplied as a foldable structure, with an optional window and customizable dimensions. Forming a paper box of this type involves die-cutting: printed board is converted into a flat blank with cut edges, crease lines and, where specified, a window aperture; the blank is then folded and glued into a three-dimensional container. The accuracy of the cut and crease pattern determines whether the box squares up, stacks evenly and closes consistently when

filled.

No die-cutting tolerance, crease accuracy figure or glue-joint specification is published with the BF-PB-003 data. Where a customer's filling line or stacking pattern is sensitive to dimensional variation, that level of detail is normally established through an approved sample rather than through a catalogue specification. The same applies to window placement on boxes ordered without a window: the specification lists the option but does not define window dimensions or film material.

Printing is listed as available with a custom logo or design, which is the basis on which custom printed takeout boxes are produced for brand owners and distributors. Print coverage and ink selection are commercial variables in that process rather than fixed parameters in the published data.

Certification and Compliance Record

Baofeng states that it holds BRC, BSCI, FSC Forest Certification, ISO 9001 quality management system certification and ISO 14001 environmental management system certification, and that its products meet multiple international testing standards including US FDA requirements. Its own BF-PB-003 data lists FDA, BRC and FSC compliance. The company also states that it has led the drafting of three national standards and two group association standards, and that it is a national high-tech enterprise, a "Specialized, Refined, Differential, and Innovative" SME of Zhejiang Province and a Zhejiang Provincial Export Brand Enterprise.

A specification line reading "FDA, BRC, FSC compliant" identifies the frameworks a product is designed against. The underlying declarations of compliance, migration test reports and certificate scopes are separate documents issued at site level, and buyers running supplier qualification typically request them alongside the product sheet. The distinction matters for [disposable paper lunch boxes](#) and similar food-contact items, where the compliance question is usually about a specific market and a specific material combination rather than about the product category as a whole.

Manufacturing Base and Capacity

Baofeng was founded in 1996 and operates from Longgang, Wenzhou, with more than 200 employees, modern standard workshops and more than one hundred production machines, according to its corporate profile. The company states that it runs a professional R&D team of 50 people and that its main products are paper cups, paper boxes, paper bags, paper plates and paper bowls.

Stated output is approximately 8 million pieces per day and nearly 3 billion pieces per year, with an annual output value above RMB 300 million. The company reports an export share of 80% and lists the United States, the European Union, Canada, Australia, the United Kingdom, Dubai,

Qatar, South Africa, Singapore, Japan and South Korea among its markets, and says its products are exported to more than 100 countries. It offers one-stop ODM and OEM services covering design, development and manufacturing, and lists China Eastern Airlines, China Southern Airlines, Juneyao Airlines, Loong Air, Shenzhen Airlines, Atour Hotel, China Resources Group, Wanda Cinemas and Yonghui Supermarkets among the brands it has served as an OEM supplier.

Company Statement

"We always adhere to the principles of high quality, high efficiency, and customer first, striving to perfect every product and serve every client with dedication."

Market Impact: What the Specification Answers and What It Leaves Open

The value of a published specification is that it narrows the questions a buyer has to ask. For the BF-PB-003, four items are answered directly: the material is food-grade kraft paper, the coating is PLA, the board weight range is 230gsm to 400gsm, and the box is a foldable construction with optional window and custom printing.

Four items are not answered by the published data and remain open until a sample or a batch document is supplied:

- Load-bearing, stacking or compression performance of the filled box.
- A numeric water-resistance or barrier grade, and the applied coating weight behind it.
- Die-cutting tolerances and crease accuracy for the blank.
- Market-specific migration testing beyond the FDA, BRC and FSC compliance statements.

This pattern is not unique to one supplier. It reflects a sector in which product sheets describe construction and compliance, while performance data is issued against a specific order. Set against that, the broader structural picture is relevant to how the supply chain is organised. Expert Market Research lists International Paper, WestRock, Smurfit Kappa and DS Smith among the leading global paper packaging companies. Baofeng's stated model — one-stop ODM and OEM production of paper cups, boxes, bags, plates and bowls for export markets — places it in the converter segment of that chain, serving brand owners, distributors and food-service operators with formed and printed items rather than with upstream board supply.

Closing Outlook

With the global paper lunch boxes market projected to rise from USD 2.06 billion in 2025 to USD 3.36 billion by 2034, according to The Insight Partners, and with the EU's recyclability

requirement for all packaging taking effect in 2030, board weight, coating chemistry and die-cutting consistency are likely to remain the parameters that decide whether a kraft food box passes a buyer's qualification process. Certification status is a gate rather than a differentiator: it establishes that a converter can supply a market, not how a specific box will perform in it.

Baofeng's published data fixes the material and coating choices for the BF-PB-003 and states a board weight range, a foldable structure and a custom printing option, backed by a stated site-level certification set and an export footprint across more than 100 countries. The variables that remain open — load, barrier duration and dimensional tolerance — are the ones a buyer would still resolve through sample testing or batch-specific documentation before the box enters a filled-goods line.

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