Bagasse Plates Technical Data Sheet

Product Family Specification | Manufacturer Technical Document

Document No.	BL-TDS-BG-PL-001	**Version**	1.0
Issue Date	29 Oct. 2026	**Country of Origin**	China
Manufacturer	Xiamen Bioleader Environmental Protection Technology Co., Ltd.	**Website**	www.bioleaderpack.com
Document Type	Product Family TDS	**Status**	Manufacturer-issued technical specification

1. Product Family Scope

This TDS describes the Bioleader® sugarcane bagasse plate product family, including round plates, compartment plates, square plates, oval plates, and selected ribbed plate formats for catering, restaurants, institutional dining, events, takeaway, retail and related foodservice applications. Exact dimensions, weight, geometry, compartment layout, packing configuration, color and barrier formulation vary by SKU.

2. Material & Construction

Property	Product Family Specification
Plate Body	Molded sugarcane bagasse fiber produced by pulp molding / thermoformed fiber technology.
Plate Color	Natural / White, depending on SKU and order specification.
Plastic Content	No conventional plastic in the bagasse plate body.
Formats	Round, 2-compartment, 3-compartment, square, oval and selected ribbed plate designs.
Size Range	Representative family range from 6-inch snack/dessert plates through 12.5 x 10-inch oval dinner/catering plates.
PFAS Formulation	Formulation-specific. Conventional oil-resistant and PFAS-free barrier systems may be available; verify the exact ordered SKU and supporting documentation.

3. Typical Use & Performance

Property	Guidance / Scope
Food Applications	Hot and cold foods, catering meals, BBQ, parties, restaurants, buffets, institutional dining, desserts, snacks and ready-to-serve foods.
Microwave Use	Applicable bagasse plate models: manufacturer guidance up to 3 minutes.
Freezer Use	Applicable bagasse plate models: down to -20°C based on representative Bioleader® bagasse TDS data.
Hot / Oily Food	Oil and water resistance is formulation- and SKU-specific. Representative plate TDS documentation lists suitability for hot/oily food applications up to approximately 100-120°C.
Oven Use	Do not treat the plate family as universally oven-safe. Oven suitability requires model-specific validation.

Performance Scope: Temperature, grease resistance, microwave suitability and compostability are product- and formulation-specific. Use the exact SKU specification and current supporting documents for procurement, compliance and end-use decisions.

4. Representative Product Range

Item	Name / Format	Weight	Product Size	PCS/CTN
P004	6" Round Plate	6 g	Dia. 151 x 13.6 mm	1000
P010	6.75" Round Plate	8 g	Dia. 174 x 15 mm	1000
P011	7" Round Plate	10 g	Dia. 180 x 18 mm	1000
P006	8.75" Round Plate	14 g	Dia. 220 x 19 mm	500
P013	9" Round Plate	15 g	Dia. 230 x 20.6 mm	500
P012	9" 3-Compartment Plate	15 g	Dia. 230 x 20.6 mm	500
P005	10" Round Plate	20 g	Dia. 261 x 20.6 mm	500
P007	10" 3-Compartment Plate	20 g	Dia. 261 x 25.6 mm	500
P020	10" x 8" Oval Plate	17 g	263 x 199 x 20 mm	500
P030	12.5" x 10" Oval Plate	30 g	318 x 255 x 22 mm	500
P036	6" Square Plate	10 g	160 x 160 x 15 mm	1000
P035	8" Square Plate	16 g	200 x 200 x 15 mm	500
P031	10" Square Plate	28 g	262 x 262 x 19 mm	500
P038	8.75" 2-Compartment Plate	14 g	Dia. 219 x 21.6 mm	500

Representative product range is based on Bioleader® current plate product data. Packing, carton dimensions, unit weight and available colors may be updated by SKU or order; confirm the current sales specification before purchase.

5. Plate Performance Benchmark Reference

Benchmark Scope	Reference / Interpretation
PFAS-Free Plate Dataset	Bioleader® 2025-2026 white paper includes P004, P010, P011, P006, P013, P005, P012, P007, P036, P035, P031, P038, P020 and P030 under the 120°C hot-oil benchmark.
Formulation Levels	Published benchmark data distinguishes PFAS-Free 1.0 and PFAS-Free 2.0 plate barrier systems; results differ by model, basis weight and barrier design.
Buyer Use	Benchmark data supports model-to-model comparison within the plate format and should not be interpreted as a universal pass/fail claim for every use condition.

6. Compliance & Technical Evidence References

Evidence Area	Reference / Scope
PFAS Screening	SGS total fluorine screening: ND (<20 mg/kg) for the tested sugarcane bagasse sample. Open SGS PFAS report
US Food Contact	Applicable FDA 21 CFR food-contact testing for report-defined sample and conditions. Open FDA 21 CFR / SGS evidence
EU / German Food Contact	SGS report-defined EC No. 1935/2004 / LFGB / BfR testing for tested bagasse tableware samples. Open EC / LFGB report
120°C Hot Oil Benchmark	Bioleader® manufacturer-controlled method BL-BG-HTO-001; performance is SKU/formulation-specific. Open test method
Plate Benchmark Dataset	2025-2026 white paper includes the main P-series plate models under the 120°C oil test. Open Performance White Paper
Compostability	Product/certificate scope dependent. Representative documentation includes OK Compost HOME, OK Compost INDUSTRIAL, EN 13432 and ASTM D6400. Open Certificate Center

7. Representative Model TDS References

Reference	Use
P038 Plate TDS	8.75" 2-compartment plate technical reference
Bagasse Plates Category	Current product family range
Bagasse Plate Product Range	Representative P-series dimensions and packing

8. Storage, Handling & Document Control

Storage: Store in a cool, dry warehouse; protect from water, excessive humidity, direct sunlight, high heat and contamination. **Shelf life:** Representative Bioleader® bagasse model TDS documents state 36 months under proper storage conditions; confirm model-specific requirements when needed. **Handling:** Avoid crushing, prolonged wet exposure and contamination during transport and storage. **Document purpose:** Product-family technical reference for B2B buyers, distributors, foodservice operators and compliance review. This manufacturer-issued TDS is not a third-party certificate and does not replace model-specific TDS files, current certificates or destination-market compliance review.

Family TDS note: This document intentionally separates family-level guidance from SKU-level values. For a purchase specification, use the selected item code, current quotation, packing list and the matching technical/compliance documents.