

TECHNICAL DATA SHEET

8oz PLA Compostable Clear Cups with Lids

Company Name: Xiamen Bioleader Environmental Protection Technology Co., Ltd.	Document No.: TDS-PLA-8OZ-2026.1	Version: 2026.1
Product Category: PLA Compostable Cold Cups - 8oz Series	Country of Origin: China	Website: www.cupschina.com

1. MATERIAL DATA

Property	Specification
Product Type	Disposable 8oz PLA clear cup series with tall 78mm cold-cup format and wide 117mm dessert-cup format
Material	PLA (polylactic acid), bio-based clear plastic for industrially compostable cold-cup applications
Appearance	Transparent / clear finish for beverage, dessert and food presentation
Nominal Capacities	Tall format: 8oz / 240ml; wide dessert format: 8oz / 330ml
Cup Dimensions	Tall: 78 x 50 x 85 mm; wide: 117 x 96 x 39 mm (Top x Bottom x Height)
Rim Compatibility	78 mm or 117 mm rim, depending on selected model; matching flat and dome lids available
Manufacturing Process	PLA resin preparation, sheet extrusion, thermoforming, trimming, rim finishing, inspection and packing
Recommended Use	Juice, iced coffee, tasting drinks, fruit cups, yogurt, desserts, cold snacks and takeaway cold beverages
Temperature Limitation	Cold use only. Not suitable for hot filling, hot drinks, microwave heating, ovens or high-temperature storage
Compostability	Industrially compostable when the finished product is supported by current certification and accepted by a suitable facility
Food Contact Compliance	Supporting documentation may include applicable FDA 21 CFR, EU food-contact and SGS test reports for the confirmed SKU
Export Packaging	Tall cup: 1000 pcs/carton; wide dessert cup: 500 pcs/carton. Final carton dimensions and sleeve quantities follow the confirmed packing specification.

2. PRINTING & DECORATION SPECIFICATION

Property	Specification
Printing Method	Dry-offset or other approved cup-printing process, subject to artwork and factory confirmation
Ink Type	Food-packaging-compliant ink suitable for exterior PLA cup printing
Printing Position	Outside cup surface only
Printing Colors	Multi-color printing available; final color count depends on artwork and production feasibility
Color Standard	Pantone reference or CMYK process printing, subject to approved proof
Printable Area	Cup side wall; final print area depends on cup taper, rim clearance and artwork coverage
Limitation	Printed surface is not intended for direct food contact unless separately validated

3. PRODUCT DIMENSIONS & PACKING DATA

Nominal dimensions are expressed as Top Diameter x Bottom Diameter x Height. Final tolerances, cup weight, lid fit, packing and certification scope shall follow the approved order specification.

ITEM	Product Name	Material	Product Size (T x B x H)	Pcs/CTN	Rim Size	Compatible Lids
8oz PLA Compostable Clear Cup Series - Cold Use Only						
PLA-8-78	8oz / 240ml Tall PLA Cup	PLA	78 x 50 x 85 mm	1000	78 mm	Flat / Dome
PLA-8-117	8oz / 330ml Wide Dessert Cup	PLA	117 x 96 x 39 mm	500	117 mm	Flat / Dome

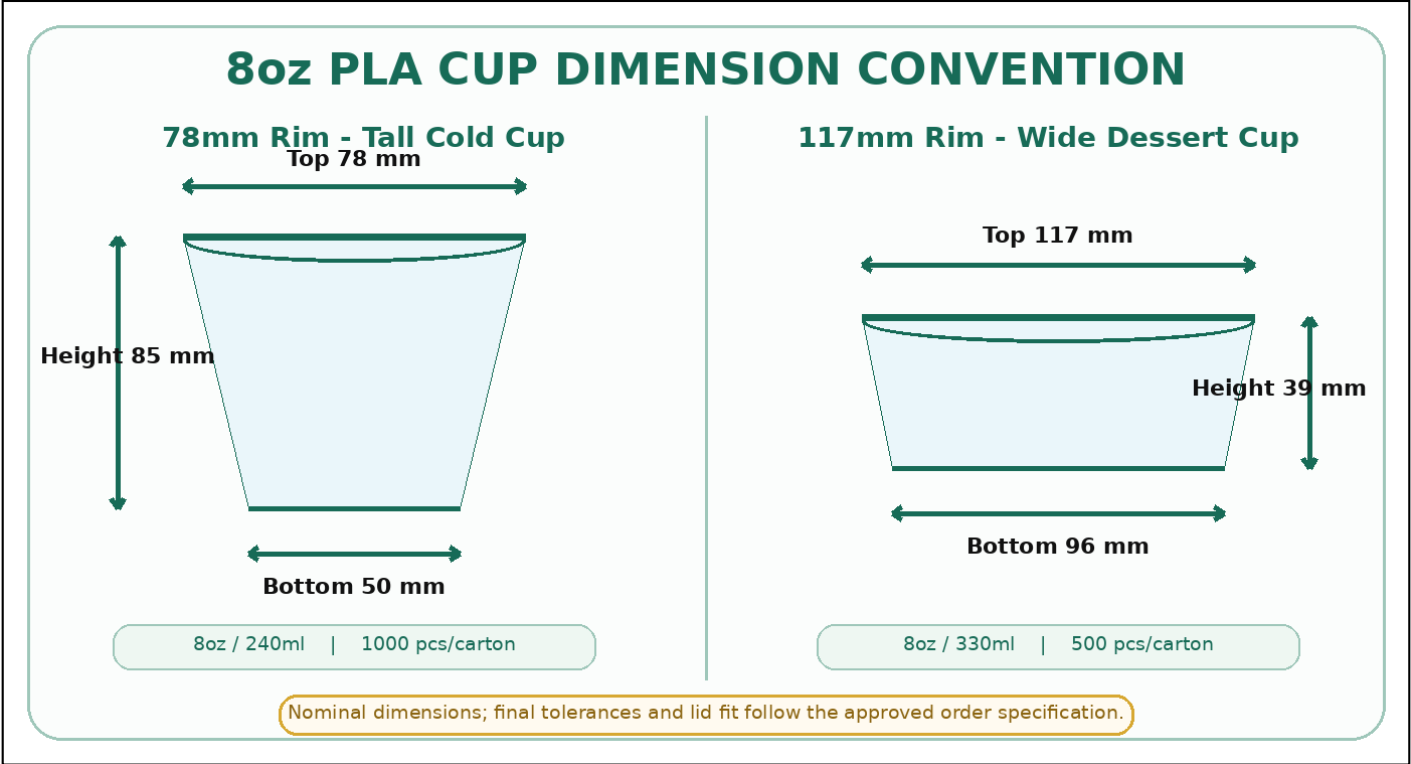
3.1 Matching Lid Reference

Lid Option	Compatible Rim	Recommended Application	Specification Note
Flat Lid	78 mm	Juice, iced coffee, tasting drinks and standard cold takeaway	Use the exact 78mm lid approved for the selected cup batch
Dome Lid	78 mm	Smoothies, toppings and premium beverage presentation	Use the exact 78mm dome lid approved for the selected cup batch
Flat Lid	117 mm	Fruit cups, yogurt, desserts and cold snacks	Use the exact 117mm lid approved for the wide cup batch
Dome Lid	117 mm	Desserts, toppings and premium food presentation	Use the exact 117mm dome lid approved for the wide cup batch

3.2 Technical Diagrams



Representative PLA cup construction. Exact resin grade, wall thickness and printing system are confirmed in the approved SKU specification.



Dimension convention: top diameter x bottom diameter x overall height.

4. PERFORMANCE & INTENDED APPLICATIONS

Performance Area	Technical Description
Clarity	Clear PLA provides high product visibility for beverages, desserts, fruit cups, yogurt and cold food presentation.
Cold-Use Performance	Designed for chilled and ambient cold-food service; avoid hot filling and prolonged high-temperature exposure.
Lid Fit	Each model requires the matching 78mm or 117mm flat / dome lid validated with the actual cup batch.
Format Selection	The 78mm model is a tall cold cup; the 117mm model is a wide, low-profile dessert cup.
Compostable Positioning	PLA supports industrial compostability claims only where certified and where local collection and processing facilities accept the product.
Export Sensitivity	PLA is more heat-sensitive than PET; insulated packaging and temperature-aware logistics are recommended for hot routes and seasons.

4.1 Application Guidance

Use Category	Guidance
Recommended	Cold drinks, juice, iced coffee, tasting drinks, fruit cups, yogurt, desserts, cold snacks and event sampling.
Conditional	Short-term refrigerated storage and long-distance export, subject to temperature protection, exact food type and transport validation.
Not Recommended	Hot beverages, hot filling, microwave heating, oven use, direct flame, pressure sealing or prolonged high-temperature storage.

5. PRODUCT IMAGES

Representative product images are shown below. Actual cup clarity, lid geometry, printing, packing and application appearance may vary by approved SKU and order specification.



8oz PLA size overview: 78mm tall cup (240ml) and 117mm wide dessert cup (330ml).



Tall 78mm cold-cup format and wide 117mm dessert-cup format shown side by side.



Representative 78mm and 117mm flat / dome lid combinations for 8oz PLA cups.



Application examples: juice, iced coffee, yogurt, fruit cups and cold desserts.

6. COMPLIANCE & CERTIFICATES

Applicable product scope for this section: **Clear PLA Compostable Cup Series.**

Certificate / Document	Coverage / Description
BPI	Industrial compostability certification reference for clear PLA cup products.
DIN EN 13432	EU industrial compostability standard reference for clear PLA cup products.
ASTM D6400	US industrial compostability standard reference for clear PLA cup products.
FDA 21 CFR / SGS	Food-contact compliance and supporting third-party test-report reference.
Declaration of Conformity	Formal product compliance declaration for the confirmed product scope and order.

Certificates and Test Reports: <https://www.bioleaderpack.com/certificate/> Product Reference: <https://www.cupschina.com/pla-cups/>

Compliance note: certificate validity, declaration scope, printing ink compatibility and destination-market acceptance must be confirmed against the exact approved SKU and matching lid.

5. PRODUCT IMAGES - CONTINUED



Representative custom multi-color printing on tall and wide 8oz PLA cup formats.



Representative Bioleader logo printing on an 8oz PLA tall clear cup.



1. Representative sealed sleeve packing for 8oz PLA cups.



2. Insulated inner-carton protection for long-distance PLA cup export shipping.



3. Export carton labeling shown for the 8oz tall cup: 1000 pcs/carton.

7. QUALITY CONTROL

Control Point	Inspection Scope
Incoming Materials	PLA resin / sheet, printing ink, lid material and supporting documentation are checked against approved specifications.
Sheet & Forming Control	Sheet thickness, heating profile, thermoforming stability, trimming and rim geometry are monitored.
Finished Appearance	Clarity, contamination, scratches, deformation, odor, print registration and visible defects are inspected.
Dimensional Check	Top diameter, bottom diameter, height, capacity and rim profile are checked for both 78mm and 117mm models.
Lid Fit Check	Correct engagement, closure consistency, stacking and representative handling are evaluated with the confirmed lid.
Cold-Use Check	Representative cold beverage / food-service performance is evaluated under the approved internal QC procedure.
Packing Check	Sleeve quantity, carton count, insulated protection, labels, batch traceability and shipping marks are checked.

8. STORAGE, HANDLING & LIMITATIONS

Item	Details
Storage	Store in a clean, cool, dry and ventilated warehouse. Keep away from direct sunlight, heat, strong odors and high humidity.
Transport	Avoid prolonged high-temperature transport. Use insulated carton or container protection where required by route and season.
Stacking	Keep cartons upright and within approved stacking limits to prevent cup and rim deformation.
Shelf Life	Follow the current approved order specification. Use first-in, first-out stock rotation and inspect product condition before use.
Stock Rotation	Record batch / lot information and avoid extended storage in warm warehouse conditions.

8.1 Use Limitations

- Cold use only. Do not use for hot beverages, hot filling, microwave heating, ovens, direct flame or heating elements.
- Do not store or transport under prolonged high-temperature conditions without suitable thermal protection.
- Do not use as a hermetically sealed or pressure-resistant package.
- Maintain adequate headspace and validate the selected 78mm or 117mm lid with the actual cup batch.
- Compostability depends on the exact certified product, local collection system and availability of an accepting industrial composting facility.
- The customer shall validate printing, filling, storage, delivery and end-use performance under actual operating conditions.

Critical Limitation: PLA clear cups are designed for cold use and are temperature-sensitive. Industrial compostability claims do not mean home compostability, marine biodegradability or universal acceptance in local waste systems.

9. MANUFACTURER

Field	Details
Manufacturer	Xiamen Bioleader Environmental Protection Technology Co., Ltd.
Brand	Bioleader Cups
Country of Origin	China
Website	www.cupschina.com
Email	info@bioleaderpack.com
Address	No. 39 Xinglong Road, Xiamen, Fujian, China
Product Reference	https://www.cupschina.com/pla-cups/

9.1 Packing & Traceability

Packing Item	Requirement
Primary Packing	Sealed inner sleeves; final sleeve quantity and sealing method follow the confirmed order specification.
Outer Carton	Tall 78mm cup: 1000 pcs/carton. Wide 117mm dessert cup: 500 pcs/carton. Final carton dimensions and gross weight follow the confirmed packing specification.
Thermal Protection	Insulated carton liners and container-level thermal protection are available for qualified bulk orders.
Custom Shipping Marks	Custom-printed cartons, labels and private-label shipping marks are available subject to artwork confirmation.
Traceability	Production batch and raw-material lot records are maintained under the manufacturer quality system.

10. DOCUMENT CONTROL & DISCLAIMER

Version	Issue Date	Revision Description	Owner
2026.1	1st Jan 2026	Initial issue for 8oz PLA compostable clear cup series	Technical & Quality Department

The information in this document represents typical product data at the issue date and is provided for technical reference. It does not constitute a guarantee for every application. The approved sample, signed specification, purchase order, current certificate scope and destination-market requirements take precedence. Bioleader Cups reserves the right to update material grade, dimensions, packing or processes subject to contractual agreement.