

# TECHNICAL DATA SHEET

## 10oz PLA Compostable Clear Cups with Lids

|                                                                                        |                                             |                                      |
|----------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------|
| <b>Company Name:</b><br>Xiamen Bioleader Environmental Protection Technology Co., Ltd. | <b>Document No.:</b><br>TDS-PLA-10OZ-2026.1 | <b>Version:</b><br>2026.1            |
| <b>Product Category:</b><br>PLA Compostable Cold Cups - 10oz Series                    | <b>Country of Origin:</b><br>China          | <b>Website:</b><br>www.cupschina.com |

### 1. MATERIAL DATA

| Property                | Specification                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type            | Disposable 10oz / 300ml PLA clear cup series with tall 78mm cold-cup format and 90mm U-shape 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 Capacity        | Both formats: 10oz / 300ml                                                                                                                                       |
| Cup Dimensions          | Tall: 78 x 50 x 108 mm; U-shape: 90 x 45 x 103 mm (Top x Bottom x Height)                                                                                        |
| Rim Compatibility       | 78 mm or 90 mm rim, depending on selected model; matching flat, dome and sip lids available                                                                      |
| Manufacturing Process   | PLA resin preparation, sheet extrusion, thermoforming, trimming, rim finishing, inspection and packing                                                           |
| Recommended Use         | Juice, iced coffee, cold brew, smoothies, milk tea, desserts 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        | Both formats: 1000 pcs/carton. Reference carton size: 41 x 33 x 42 cm. 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   |
|-------------------------------------------------------|------------------------------|----------|--------------------------|---------|----------|-------------------|
| 10oz PLA Compostable Clear Cup Series - Cold Use Only |                              |          |                          |         |          |                   |
| PLA-10-78                                             | 10oz / 300ml Tall PLA Cup    | PLA      | 78 x 50 x 108 mm         | 1000    | 78 mm    | Flat / Dome / Sip |
| PLA-10-90U                                            | 10oz / 300ml U-shape PLA Cup | PLA      | 90 x 45 x 103 mm         | 1000    | 90 mm    | Flat / Dome / Sip |

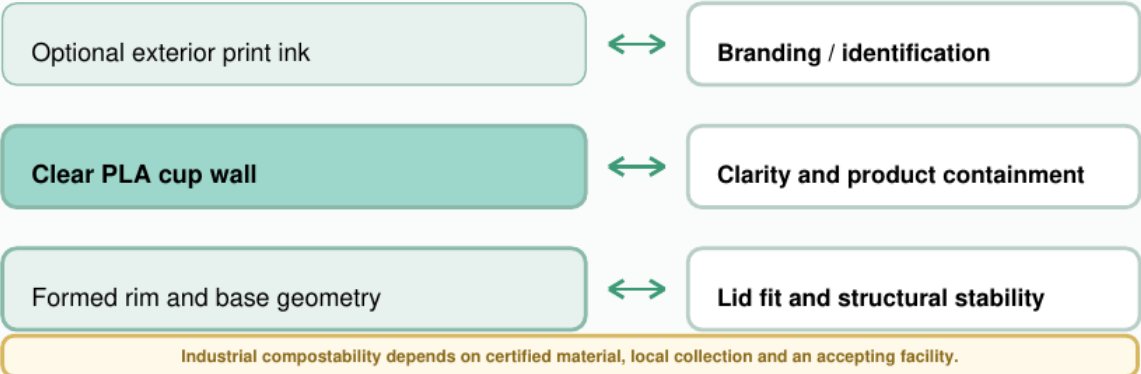
3.1 Matching Lid Reference

| Cup Format       | Compatible Rim | Available Lid Options          | Recommended Application                                                        |
|------------------|----------------|--------------------------------|--------------------------------------------------------------------------------|
| Tall Cold Cup    | 78 mm          | Flat Lid / Dome Lid / Slip Lid | Juice, iced coffee, cold brew, tasting drinks and takeaway beverages           |
| U-shape Cold Cup | 90 mm          | Flat Lid / Dome Lid / Slip Lid | Smoothies, milk tea, desserts, toppings and premium cold beverage presentation |

3.2 Technical Diagrams

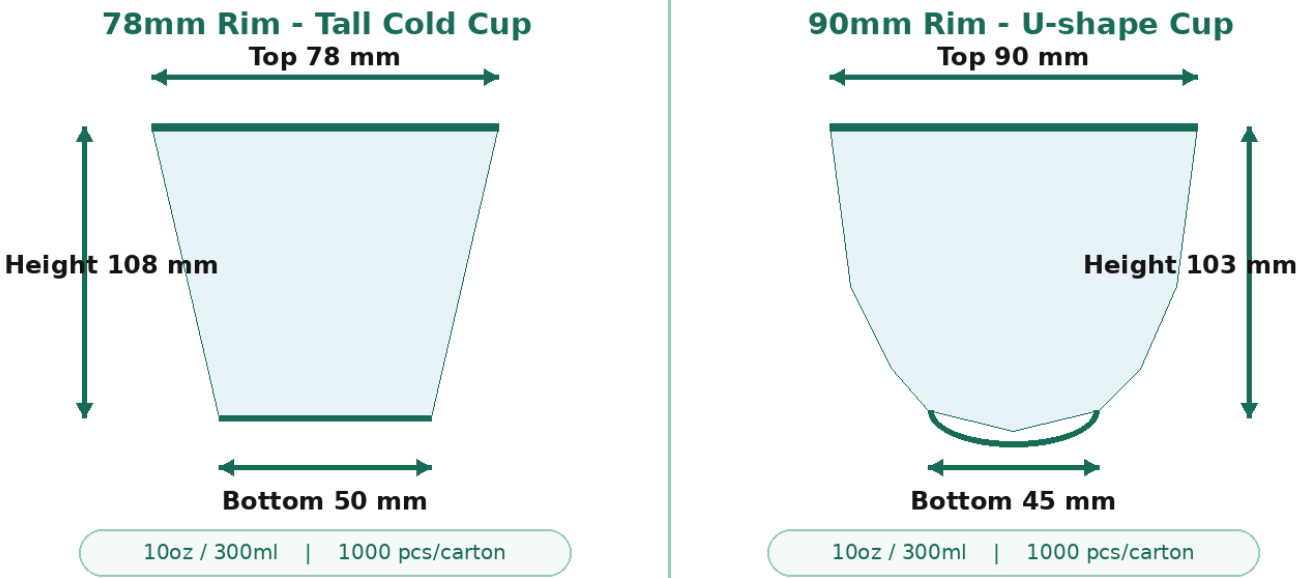
REPRESENTATIVE PLA CUP CONSTRUCTION

Exact resin grade, wall thickness and printing system follow the approved SKU specification.



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

10oz PLA CUP DIMENSION CONVENTION



Nominal dimensions; final tolerances and lid fit follow the approved order specification.

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

## 4. PERFORMANCE & INTENDED APPLICATIONS

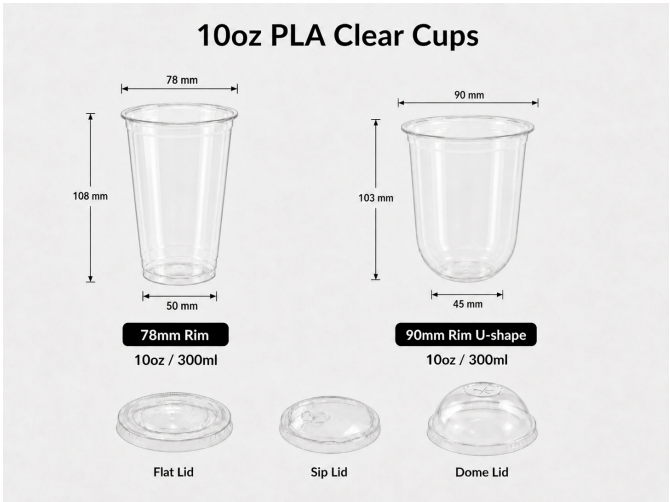
| Performance Area        | Technical Description                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 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 90mm flat, dome or sip lid validated with the actual cup batch.                                    |
| Format Selection        | The 78mm model is a tall standard cold cup; the 90mm model is a wider U-shape 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.



10oz PLA size overview: 78mm tall cup and 90mm U-shape cup, both 300ml.



Tall 78mm cold-cup format and 90mm U-shape cup format shown side by side.



Representative 78mm and 90mm flat, dome and sip lid combinations for 10oz PLA cups.



Application examples: iced coffee, smoothies, milk tea and premium cold beverages.

## 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 for 10oz PLA clear cups.



Representative Bioleader logo printing on a 10oz PLA clear cup.



1. Representative sealed sleeve packing for 10oz PLA cups.



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



3. Export carton labeling for 10oz PLA cups: 1000 pcs/carton, 41 x 33 x 42 cm.

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 90mm 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 90mm 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          | Both 78mm and 90mm cup formats: 1000 pcs/carton. Reference carton size: 41 x 33 x 42 cm. 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 10oz 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.