



BIO-BASED · CERTIFIED COMPOSTABLE · EN13432 & ASTM D6400

# SAMFOAM®

Bio-Based Foam Board & Protective Packaging Solutions

*"The sustainable alternative to EPS — same performance, zero fossil footprint."*

**3**  
Grades Available

**70%+**  
Bio-Based Content

**100%**  
Compostable

**6**  
Global Certifications

**15+**  
Years Experience

**SamCome EcoTech**  
Shenzhen SamCome Eco-Tech Co., Ltd.

[www.samcome.com](http://www.samcome.com)  
[sales@samcome.com](mailto:sales@samcome.com)  
+86 135 3825 0588

# Pioneering Bio-Based Foam Technology

Certified manufacturer of compostable packaging materials — Shenzhen, China

**2008**

Founded

**50+**

Countries Served

**ISO**

9001 & 14001 Certified

**6**

International Certifications

Shenzhen SamCome Eco-Tech Co., Ltd. is a leading manufacturer of bio-based and compostable packaging materials, headquartered in Shenzhen, China. With over 15 years of expertise in green polymer science, SamCome develops advanced material solutions that replace conventional petroleum-based foams without compromising on performance.

Our flagship product line, **SAMFOAM®**, is a proprietary bio-based foam board manufactured from PLA (Polylactic Acid) and PBAT (Polybutylene Adipate Terephthalate) compounds derived from renewable agricultural feedstocks including corn starch and sugarcane.

SAMFOAM® is fully certified under international compostability standards including **EN 13432**, **ASTM D6400**, **BPI**, **OK Compost**, **NF T51-800**, and holds **FDA food-contact approval** — making it the ideal sustainable alternative for protective packaging, food service, and construction applications worldwide.



## WHY CHOOSE SAMCOME?

- Drop-in replacement for EPS/EPE with identical processing equipment
- Fully compostable in industrial composting within 180 days
- 70%+ bio-based carbon content — verified by third-party labs
- Custom shapes, densities and grades available on request
- MOQ from 1 tonne — global shipping from Shenzhen port

## OUR PRODUCT PORTFOLIO

- ❑ **SAMFOAM® GP** — General Purpose bio-foam board for standard packaging
- ❑ **SAMFOAM® FR** — Flame Retardant grade for electronics & appliance packaging
- ❑ **SAMFOAM® HE** — High Elasticity grade for fragile item protection
- ❑ **PLA+PBAT Compound** — Raw material for film & bag manufacturers
- ❑ **PBAT+PP Compound** — High-performance blended resin
- ❑ **SAM-FILL** — Compostable loose fill packaging peanuts

EN 13432

EU Compostability

ASTM D6400

US Compostability

BPI Certified

Biodegradable Products

OK Compost

TÜV Austria

FDA

Food Contact Safe

ISO 9001/14001

Quality & Environment



Performance Criterion	SAMFOAM® (Bio-Based)	EPS (Expanded Polystyrene)	EPE (Polyethylene Foam)	Pulp Moulded
Compostability	✓ Compostable	✗ Not Compostable	✗ Not Compostable	✓ Compostable
Bio-Based Content	70%+ Bio-Based	0% (Fossil)	0% (Fossil)	100% Plant Fibre
Shock Absorption	Excellent	Excellent	Good	Moderate
Moisture Resistance	Good	Excellent	Excellent	Poor
Custom Shaping	✓ Full Customisation	✓ Full Customisation	Limited	Moderate
Processing Equipment	Standard EPS Machines	Dedicated EPS Lines	PE Foam Lines	Specialised Tooling
Carbon Footprint	Low (Renewable)	High (Fossil)	High (Fossil)	Very Low
End-of-Life Disposal	Industrial Composting	Landfill / Incineration	Landfill / Incineration	Composting / Recycling
Regulatory Compliance	EU, US, AU Compliant	Banned in Many Regions	Restricted	Compliant

**Key Advantage:** SAMFOAM® is the only bio-based foam that matches EPS in shock absorption and moisture resistance while being fully certified compostable. It runs on standard EPS processing equipment — zero capital investment required for conversion.

**GP**

General Purpose Grade

The standard SAMFOAM® grade for everyday protective packaging. Ideal for consumer electronics, home appliances, furniture and general e-commerce fulfilment. Balances cushioning performance with cost efficiency.

Density Range	<b>15–30 kg/m³</b>
Compressive Strength	<b>80–150 kPa</b>
Thermal Resistance	<b>Up to 70°C</b>
Bio-Based Content	<b>≥70%</b>
Compostability	<b>EN13432 / ASTM D6400</b>

- Electronics
- Appliances
- E-Commerce
- Furniture

**FR**

Flame Retardant Grade

SAMFOAM® FR incorporates bio-based flame retardant additives to meet international fire safety standards. Designed for electronics packaging, server equipment, and applications requiring UL94 HF-1 or equivalent compliance.

Density Range	<b>18–35 kg/m³</b>
Compressive Strength	<b>100–180 kPa</b>
Flame Rating	<b>UL94 HF-1</b>
Bio-Based Content	<b>≥65%</b>
Compostability	<b>EN13432 / ASTM D6400</b>

- Servers
- IT Equipment
- Batteries
- TV Panels

**HE**

High Elasticity Grade

SAMFOAM® HE offers superior elastic recovery for fragile and high-value items. Its enhanced flexibility prevents cracking under repeated compression, making it ideal for glassware, ceramics, precision instruments and medical devices.

Density Range	<b>20–40 kg/m³</b>
Elastic Recovery	<b>≥95% after 72h</b>
Thermal Resistance	<b>Up to 80°C</b>
Bio-Based Content	<b>≥68%</b>
Compostability	<b>EN13432 / ASTM D6400</b>

- Glassware
- Ceramics
- Wine
- Instruments

**TECHNICAL SPECIFICATIONS — FINISHED BOARD FORMS**

Product Code	Grade	Standard Thickness	Sheet Size	Density	Colour	MOQ
SF-BB-GP	GP	10–100 mm	1000×2000 mm	15–30 kg/m³	White	1 Ton
SF-BB-FR	FR	10–80 mm	1000×2000 mm	18–35 kg/m³	White/Grey	1 Ton
SF-BB-HE	HE	10–60 mm	1000×2000 mm	20–40 kg/m³	White	1 Ton
SF-FB-CU	GP/HE	Custom	Custom Molded	20–35 kg/m³	White	500 pcs
SF-FB-IN	GP/FR/HE	Custom	Custom Molded	15–40 kg/m³	White	500 pcs

SamCome supplies bio-based resin compounds directly to foam manufacturers and film converters. All pellets are produced from renewable feedstocks (corn starch, sugarcane) and are certified compostable. Available in PLA, PBAT, PLA+PBAT blend, and PBAT+PP compound grades.



**PLA Resin Pellets**  
Clear / Transparent Grade



**PLA+PBAT Compound**  
Standard Blend — Film Grade



**PBAT Granules**  
Flexible Biodegradable Resin



**PLA Compound**  
Opaque White Grade



**SAMFOAM® Bead**  
Expanded Bead — GP Grade



**SAMFOAM® Bead FR**  
Flame Retardant Grade



**SAMFOAM® Bead HE**  
High Elasticity Grade



**PLA+PBAT Blend**  
Translucent Film Grade



**PBAT Compound**  
Crystal Clear Grade



**PLA Foam Bead**  
Pre-expanded — SAM-FILL



**PBAT+PP Compound**  
Amber / Natural Grade



**PLA Resin**  
High-Clarity Film Grade



**PLA+PBAT Pellets**  
Bag & Mailer Grade



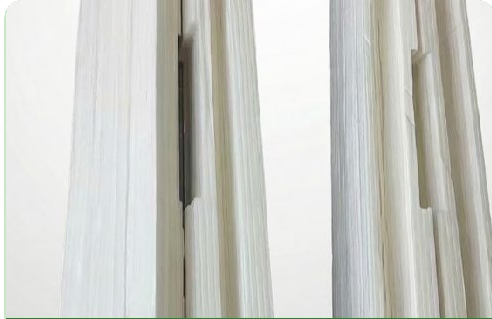
**Bio Resin Beads**  
Iridescent / Specialty Grade

**+**  
**Custom Grades**  
Contact us for bespoke formulations

**Custom Formulations**  
Tailored to your process

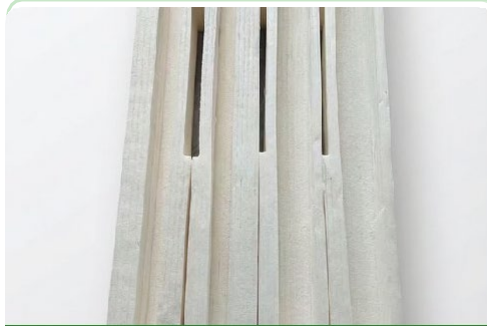
**All grades certified: EN13432**  
**· ASTM D6400**  
**BPI · OK Compost · FDA**

**All Grades Certified**  
Global compliance



**TV Corner Protector — Single Channel**

Single-groove channel profile for edge and corner protection of flat-panel TVs and large displays. Fits 40"–85" screens.



**TV Multi-Channel Block**

Wide multi-groove block for separating and protecting multiple stacked flat-panel TVs during transport and warehousing.



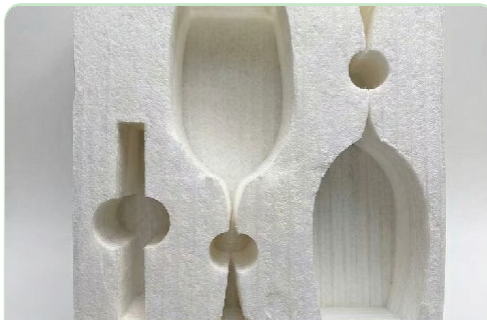
**TV Panel Separator Board**

Full-width separator board with multiple parallel channels — ideal for bulk TV panel shipments in container loads.



**Cup & Bowl Holder Tray**

Custom-moulded tray for ceramic cups, bowls and tableware. Holds 4 items per tray with precise cavity fit. HE grade for fragile items.



**Wine Glass & Bottle Insert**

Precision-moulded insert for wine glasses and bottles. Prevents breakage during transit. Available in GP and HE grades.



**Cold Storage Box with Lid**

Insulated bio-foam cold storage box for fresh food, seafood and pharmaceutical cold-chain logistics. Maintains temperature for 24– 48 hours.

All finished products are manufactured from SAMFOAM® GP, FR or HE grade boards.

Custom cavities, thicknesses and densities available. | Minimum order: 500 pieces per design. | Tooling cost quoted separately.



**Protective Packaging**

SAMFOAM® replaces EPS and EPE foam in protective packaging for consumer electronics, home appliances, glassware, ceramics and e-commerce fulfilment. Its superior cushioning properties and custom mouldability make it the ideal sustainable drop-in replacement.

- Consumer Electronics
- Home Appliances
- Glassware & Ceramics
- TV & Displays
- E-Commerce



**Green Building & Insulation**

SAMFOAM® FR grade meets fire safety requirements for building insulation, underfloor heating systems, and wall panel applications. Its bio-based composition supports LEED and BREEAM green building certifications, helping architects and developers meet sustainability targets.

- LEED Projects
- Wall Insulation
- Underfloor Heating
- Roof Panels



**TV & Large Display**

Corner protectors, edge profiles and separator boards for flat-panel TVs from 40" to 85". Runs on standard EPS lines.



**Food & Beverage**

FDA-approved inserts for wine glasses, bottles, ceramic tableware and premium food gift packaging.



**Electronics & IT**

FR-grade foam for servers, laptops, batteries and precision instruments requiring fire-safe packaging.

**CASE STUDIES**

**Major TV Brand — South Korea**

Converted 100% of EPS corner protectors to SAMFOAM® FR grade. Achieved EN13432 compliance for EU market entry. 40% reduction in carbon footprint per unit.

**Premium Wine Shipper — France**

Custom HE-grade wine glass inserts replacing EPS. Passed 1.2m drop test. Fully compostable — accepted by French waste management system.

**E-Commerce Retailer — Germany**

SAMFOAM® GP used for 2M+ shipments annually. Compliant with German packaging law (VerpackG). Zero landfill waste from packaging.



**QUALITY MANAGEMENT**

ISO 9001:2015 Certified  
 ISO 14001:2015 Certified  
 Carbon Footprint Verified  
 FDA Food Contact Approved

**EN 13432 — European Compostability Standard**

Certifies that SAMFOAM® fully biodegrades in industrial composting within 180 days, leaving no harmful residues. Required for all EU markets.

**ASTM D6400 — US Compostability Standard**

Confirms compostability performance for the North American market. Required by BPI certification and many US municipal composting programmes.

**BPI Certified — Biodegradable Products Institute**

Third-party certification confirming compliance with ASTM D6400. Recognised by US retailers, brands and composting facilities.

**OK Compost — TÜV Austria**

European industrial compostability mark. Accepted by composting facilities across Germany, France, Netherlands, Belgium and Austria.

**NF T51-800 — French Compostability Standard**

Required for the French market under the AGECE Law. SAMFOAM® is fully compliant for sale and use in France.

**WHY CHOOSE SAMFOAM®**

**Drop-In Replacement**

Runs on existing EPS processing equipment. No capital investment required. Same tooling, same moulds.

**Regulatory Compliance**

Compliant with EU Single-Use Plastics Directive, German VerpackG, French AGECE Law, and US state bans on EPS.

**Custom Engineering**

Any shape, density, thickness or grade. Our engineers work from your CAD files or physical samples.

**Global Supply Chain**

Shipped from Shenzhen port. Reliable lead times of 20–35 days. FOB, CIF and DDP terms available.

**Competitive Pricing**

Bio-based at near-EPS price points. Volume discounts from 5 tonnes. Annual contract pricing available.

**Technical Support**

Dedicated application engineers for processing optimisation, mould design review and quality troubleshooting.

# SamCome EcoTech

Shenzhen SamCome Eco-Tech Co., Ltd. — Your Partner in Sustainable Packaging

## HEADQUARTERS

G/Block Chunyang Industrial Zone, Longhua  
District, Shenzhen  
Guangdong Province, China 518172

## SALES & ENQUIRIES

Email: [info@samcome.com](mailto:info@samcome.com) Sales:  
[sales@samcome.com](mailto:sales@samcome.com) Tel: +86 135  
3825 0588  
WhatsApp: +86 135 3825 0588

## ONLINE

Website: [www.samcome.com](http://www.samcome.com)  
LinkedIn: SamCome EcoTech  
WeChat: 13538250588

## REQUEST A SAMPLE

We offer free samples of all SAMFOAM® grades.  
Contact our sales team with your application details  
and we will dispatch samples within 3 business days.  
Sample request: [sales@samcome.com](mailto:sales@samcome.com)

[Request a Quote or Sample Today →](#)

