



COMPOSTA[®]

FOAM

*Reusable, Compostable, Clean Burning
Naturally Anti-Static & Humidity Independent
High Resistance to Thermal Fluctuation
Multiple Impact Protection
Lightweight, Closed-Cell, Medium Density
68% less energy requirement
76% less greenhouse gas emissions*



A future free from plastic.....

Composta Foam is

- Made from high-grade cornstarch and soy oil
- 100% biocompostable
- multi-impact resistant
- Thermally efficient
- Naturally anti-static

Composta Foam Original Formula is

- Closed-cell foam technology
- Corrugated design optimizes cushioning and stabilizes cargo
- Width of 1000mm, lengths of 1200mm , thickness of 25mm and 50mm come as standard,

Composta Foam Meets Standards for Biodegradability in Ground and Water-based Environments set by the American Society for Testing and Materials (ASTM) and the International Organization for Standardization (ISO)

Composta Foam Facilitates ISO, Conforms to European Standard EN13432 and delivers 14000 Certification by demonstrating a commitment to continual environmental improvement – 68% less energy requirements and 76% less greenhouse gas emissions than comparable amounts of polyethylene foam



Planet Friendly Disposal

Composting - 1 week to breakdown

Recycling - enhances the recycling process of cardboard

Domestic disposal

bury it - acts as a natural fertiliser
dissolve it in water and feed to plants
dissolve in the sink and drain away

For further details, please call **01793 781 243**
or email sales@bioviron.com



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Technical Data Sheets

1. Environmental Footprint
2. Humidity
3. Electrical
4. Mechanical
5. Chemical
6. Insulation

1. Environmental Footprint (Life Cycle Assessment)

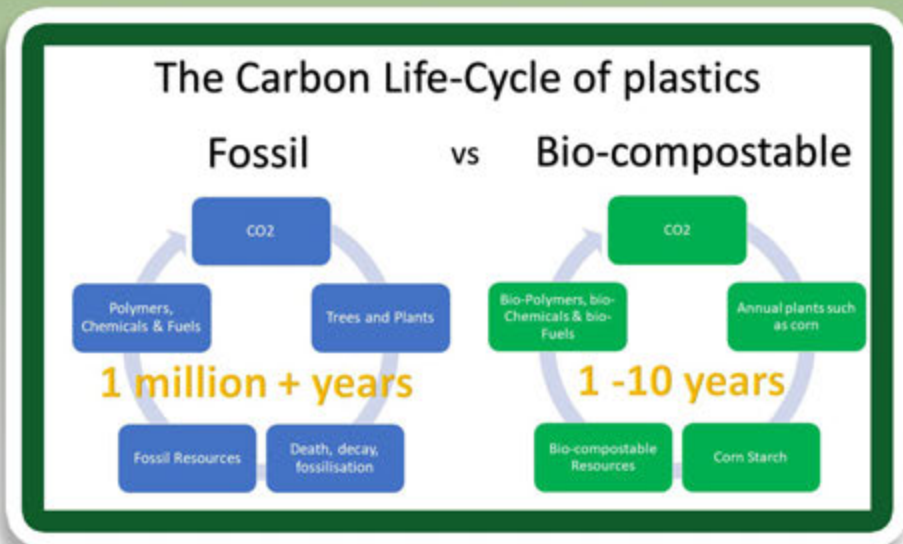
- Green House gas emissions
- Energy Consumption
- Total waste production
- Toxic waste generation
- Regulated air emissions
- Water discharges

Green house Gas Emissions profile

Composta Foam is made from annually renewing biomass feedstocks

Fossil resource plastic is made from fossil mass feedstocks that take 1 million years to renew.

Composta foam is a balanced Green House Gas Emission production process (see chart above)



Energy Consumption profile

Composta Foam has an energy footprint of between 50% and 75% of its equivalent fossil fuel LDPE foam plastics. See the tabel below.

Waste Footprint for Composta Foam vs Fossil equivalents

Composta Foam and other Corn Starch based polymers have a significantly smaller impact on the environment during end of life waste disposal as can be clearly seen in the table below.

Plastic type	Cradle to gate non-renewable energy use MJ/functional unit	Waste treatment for emission calculations	GHG emissions [kg CO2 eq/functional unit]	Ozone precursors [g ethylene eq]	Acidification [g SO2 eq]	Eutrophication [g PO4 eq]
HDPE	80	Incineration	4.84	n/a	n/a	n/a
LDPE	91.7	80% Incineration 20% landfill	5.20	13.0	17.4	1.1
"Composta" Starch pellets	25	Incineration	1.14	n/a	n/a	n/a
"Composta" Starch pellets	25	100% composting	1.14	5.0	10.6	4.7

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2. Humidity Test

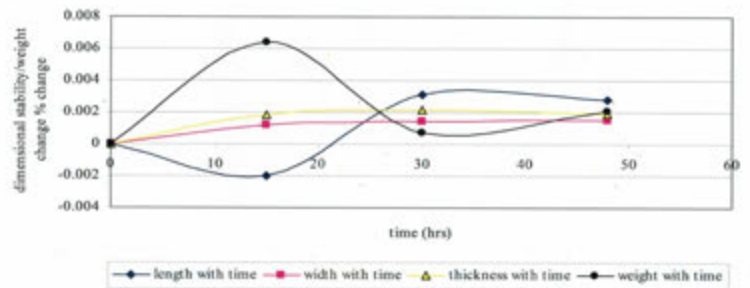
- RSC 200# 'C' flute
- kraft corrugated box sealed
- BioViron Composta-foam on the inside

Tests were conducted at 95% RH +/-5% at 98.6° F for a period of 48 hours. The results recorded showed that the material weight and dimensional change was less than the margin of error expected during such procedures.



Compostafoam Humidity Data

Dimensional Change of Less Than 1%



3. Electrical Characteristics

Naturally Anti-Static Humidity Independent
Surface Resistance: 109 – 1010 Ohms per
EOS/ESD-S11.11-1993
Charge Decay Rate: Less than 0.1 seconds

4. Mechanical Characteristics

Biodegradable Foam
Multiple – Impact Protection
Acts as a Desiccant

5. Chemical Characteristics

Non – GMO Cornstarch
Non – Corrosive
Non – Toxic, No Irritation
No VOC's, Lead, Cadmium, Mercury, Hexavalent,
Chromium, PBB or PBDE flame retardants

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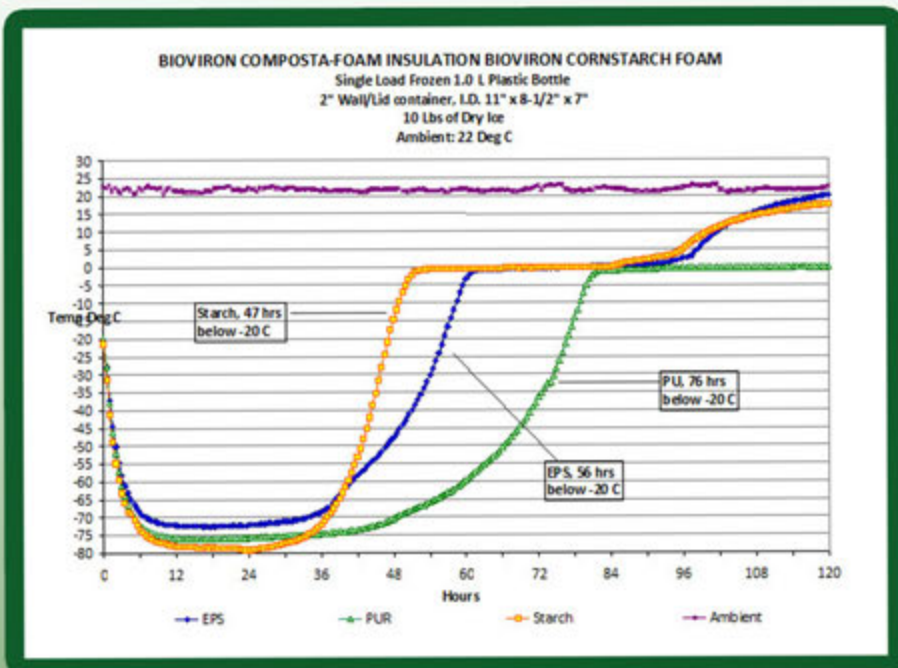
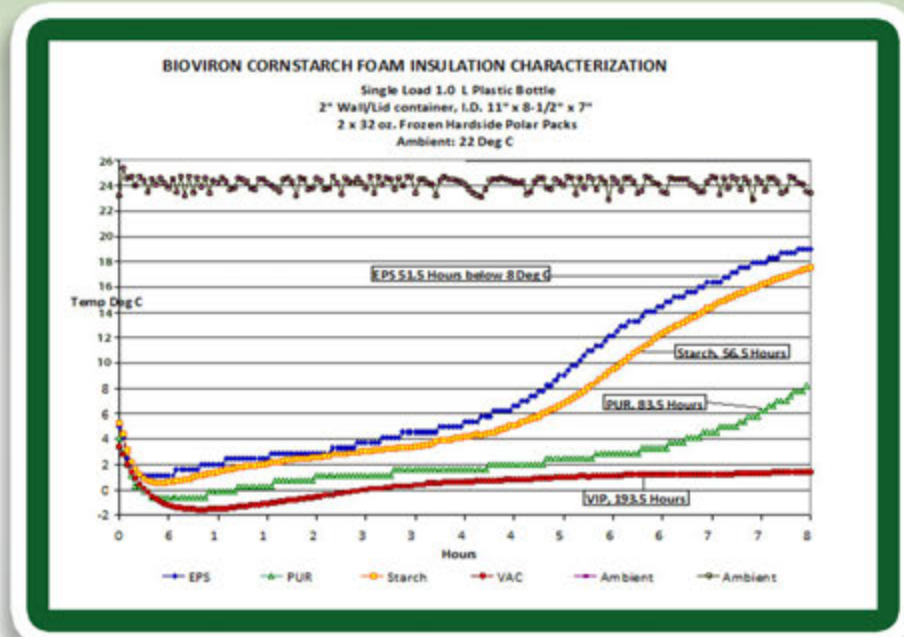
Technical Data Sheets

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6. Insulation

- 2 Polar Pack Test
- kraft corrugated box sealed
- BioViron Composta-foam on the inside

In this test, using 2 polar packs, the BioViron cooler, shown in yellow, outperforms the polystyrene cooler, shown in blue, by almost 10%. The object of the test was to keep the temperature below 8 degrees Celsius (46 Fahrenheit). The polystyrene cooler performed for 51.5 hrs, while the BioViron cooler performed by 56.5 hours.



- Dry Ice Test
- kraft corrugated box sealed
- BioViron Composta-foam on the inside

In this test, using 10 lbs. of dry ice, the BioViron cooler chilled much more rapidly than the competition, and kept the temperature lower for 36 hrs. Since most dry ice shipments are made on an overnight basis, BioViron Composta-foam provided the best performance over this timeframe.

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