



**COMPOSTA<sup>®</sup>**

**FORM**

**Made from PLA (polylactic acid)**  
**Replaces oil-based single use plastic packaging**  
**50% + reduction in carbon footprint**  
**100% Renewable Raw Materials**  
**Suitable for film extrusion, thermoforming or fibre spinning production methods**  
**Compostable within 60 degree industrial composting unit**  
**Approved for Food Contact**



### **A future free from plastic.....**

**Composta-form** is a bio-based polymer derived from natural resources and offers a significant reduction in carbon footprint compared to oil-based plastics.

**Composta-form** can replace is extensive including many single use plastics. e.g. protective packaging, cold drink cups, packing boxes for fruits, single use plates, egg trays, cup lids or tray lids.

### **Planet Friendly Disposal**

#### **Industrial Compostable**

All Composta Form sheets break down over a 28 day period in an industrial composting unit or domestic hot bin achieving 60 degree temperatures.

**100% Biodegradable in landfill**

**100% recyclable** within a closed loop compostable product cradle to cradle chain.



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



**BioViron™**



# Technical Data Sheets

1. Environmental Footprint
2. Designation of product, preparation and manufacturer
3. Mechanical properties
4. Physical properties
5. Certification
6. Storage & Disposal

## 1. Environmental Footprint

**Composta Form** is manufactured from a unique combination of Starches extracted from a selection of annually grown feedstock. This unique combination is combined to create the resin from which the Composta form is manufactured to client specifications.

As such the feedstock has a zero carbon footprint reducing significantly the overall manufacturing foot print of the material.

The table below shows the mass in KG or Tonnes of Carbon Dioxide equivalent materials produced when manufacturing 1 tonne of the material. It also shows the percentage reduction in CO<sub>2</sub>e production achieved by Composta Form compared to the fossil based materials in the table.



Virgin Material	kg CO <sub>2</sub> e/ tonne material extruded	Tonne CO <sub>2</sub> e/ Tonne material extruded	Composta form % reduction in CO <sub>2</sub> e emissions
PVC	2124.85	2.12485	60.23%
PP	1854.89	1.85499	54.44%
LDPE	2424.80	2.42480	65.15%
HDPE	2024.87	2.02487	58.27%
PET	2424.80	2.42480	65.15%
GPPS	2474.79	2.47479	65.85%
HIPS	2654.76	2.65476	68.17%
ABS	4024.54	4.02454	79.00%
COMPOSTA FORM	845.06	0.84506	n/a

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## 2. Designation of product, preparation and manufacturer

**Trade name: Composta Form**

**Use of product: Biodegradable material for vacuum and thermo forming uses made from 100% renewable resources.**

**Manufacturer: BioViron International Limited**  
**Bowman House Business Centre**  
**Royal Wootton Bassett, Wiltshire SN4 7DB**  
**Phone: + 44 (0) 1793 781243**  
**Mail: [info@bioviron.com](mailto:info@bioviron.com)**  
**Web: [www.bioviron.com](http://www.bioviron.com)**



## 3. Mechanical Properties

Mechanical properties	value	certification
Tensile modulus of elasticity	2600 [MPa]	ISO 527
Tensile strength	47 [MPa]	ISO 527
Tensile strain at tensile strength	4 [%]	ISO 527
Tensile stress at break	23 [MPa]	ISO 527
Tensile strain at break	19 [%]	ISO 527
Flexural modulus	2650 [MPa]	ISO 178
Flexural strain at break	no break [%]	ISO 178
Flexural stress at 3.5 % strain	64 [MPa]	ISO 178
Notched impact strength (Charpy), RT	7 [kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact strength (Charpy), RT	no break [kJ/m <sup>2</sup> ]	ISO 179-1/1 eA

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Physical Properties		
Melt Flow Rate (190 °C/2.16kg)	2.5 – 4.5 (g/10 min)	ISO 1133
Melt Volume Rate (190 °C/2.16kg)	2.0 – 4.0 (cm <sup>3</sup> /10 min)	ISO 1133
Melting Temperature	>155 (°C)	ISO 3146-C
Vicat A softening Temperature	60 (°C)	ISO 306
Density	1.3 (g/cm <sup>3</sup> )	ISO 1183
Shrinkage	0.3 (%)	ISO 294-4

## 5. Certification

*Composta Form is approved for food contact according to European directives.*

*Composta Form is certified industrial compostable.*



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## 6. Storage & Disposal

### STORAGE

*It is essential to store the material in a dry and cool place.*

### COMPOSTABILITY

- Composta Form breaks down during industrial composting in around 28 days
- Composta Form Bio-degradable
- Composta Form is 100% recyclable into a compostable materials loop cycle.
- Composta Form can not go into the recycling bin in a domestic setting
- Composta Form can go to Landfill – where it will take longer to break down.
- Composting of organic waste helps to divert organic waste from landfill or incineration.
- Composting is a biological process in which organic wastes are degraded by microorganisms into carbon dioxide, water and humus, a soil nutrient.
- As the COMPOSTABILITY of the end product is also dependent on the geometry of product, it is the responsibility of the manufacturer of the end product to ensure compliance with the regulations.



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