



SANTAINERS LIMITED

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BIODEGRADABLE SANICUP STYROFOAM –TEST RESULTS AT 790 DAYS

TEST RESULTS UPDATE. The results show 89.1% BIODEGRADATION over a period of 790 days. See attached. The International ASTM D5511 test method was used. The test is being done by Eden Research Laboratory of Albuquerque, New Mexico, USA. (www.edenresearchlab.com)

To summarize our results to date:

- 25% BIODEGRADATION IN 92 DAYS
- 50% BIODEGRADATION IN 298 DAYS
- 75% BIODEGRADATION IN 547 DAYS
- 85% BIODEGRADATION IN 640 DAYS (1 year 9 months 5 days)
- 89.1% BIODEGRADATION IN 790 DAYS (2 years & 2 months)

These results support the plastic resin manufacturer's claim of 92% Degradation over four years in a biologically active landfill such as the Beetham Dump

Notes:

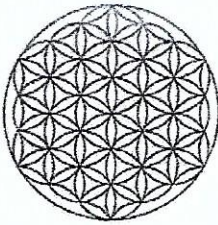
- 1) Santainers Ltd. does not use additives. The Biodegradable plastic resin evergreen # evT280cz is made in Canada by Styrochem Canada Ltd. (www.styrochem.com).
- 2) The Biodegradable plastic resin complies with the food contact regulations of the United States Food and Drug Administration, Health Canada and the European Union.
- 3) Santainers Ltd. has manufactured ALL of its EPS (Styrofoam) products since May 2019 with the Biodegradable resin. Trial runs began in November 2018.
- 4) To conclude, Santainers BIODEGRADABLE EPS products will degrade NATURALLY in landfills such as the Beetham Dump.

In contrast, all Alternative products described as 'COMPOSTABLES' are required to be manually segregated from the waste stream and then sent to an Industrial Composting Facility **before they can fulfill their claims**. A Composting Facility is expensive to build and operate. Santainers Ltd EPS products have no need for an Industrial Composting Facility.



Winner of the Prime Minister's Exporter of the Year Award - 2009
Miscellaneous Manufacturing Industry Leader Award - 2009





Eden Research Laboratory

Up-
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Date: February 2, 2021

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Regarding: D5511 Study of Santainers Sample (790 Days)

	Inculum	Negative	Positive	2030 - Polystyrene Foam Cups
Cumulative Gas Volume (mL)	2091.5	2049.9	10551.8	20210.5
Percent CH ₄ (%)	46.6	46.9	40.7	48.6
Volume CH ₄ (mL)	974.4	961.6	4295.0	9817.3
Mass CH ₄ (g)	0.70	0.69	3.07	7.01
Percent CO ₂ (%)	38.4	37.5	41.8	36.2
Volume CO ₂ (mL)	803.9	769.4	4406.9	7315.9
Mass CO ₂ (g)	1.58	1.51	8.66	14.37
Sample Mass (g)	10	10	10	10.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	9.2
Biodegraded Mass (g)	0.95	0.93	4.66	9.18
Percent Biodegraded (%)		-0.3	87.9	89.1
* Adjusted Percent Biodegraded (%)		-0.3	100.0	101.4

* Outside of the ASTM D5511 method and on the assumption that the positive control (Cellulose) will fully biodegrade, all value have been proportionally adjusted.

Biodegradation

