

Eden Research Laboratory

TO: Dr Tung's

Date: January 31, 2013

Update

From: Thomas Poth

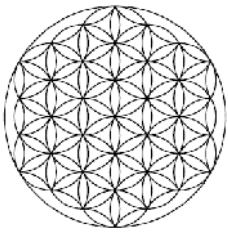
Number of pages including cover: 2

Regarding: Floss Containers Samples (385 days)

2111 Menaul NE, Suite A
 Albuquerque, NM 87107
 T 505.508.3994
 M 505.550.9316

thomas.poth@edenresearchlab.com

	Inculum	Negative	Positive	452A - Floss con- tainer - Control	453A - Floss con- tainer - treated with BioPure 1%
Cumulative Gas Volume (mL)	3581.5	2680.8	11327.7	5614.5	25223.5
Percent CH ₄ (%)	40.8	43.2	46.7	43.2	53.2
Volume CH ₄ (mL)	1461.7	1158.5	5291.4	2423.6	13413.1
Mass CH ₄ (g)	1.04	0.83	3.78	1.73	9.58
Percent CO ₂ (%)	41.3	39.0	39.6	36.4	35.0
Volume CO ₂ (mL)	1480.6	1044.7	4489.7	2046.0	8831.1
Mass CO ₂ (g)	2.91	2.05	8.82	4.02	17.35
Sample Mass (g)	1,000	10	10	30.0	30.0
Theoretical Sample Mass (g)	0.0	8.6	4.4	25.7	25.7
Biodegraded Mass (g)	1.58	1.18	5.24	2.39	11.92
Percent Bio- degraded (%)		-4.6	82.9	3.2	40.2
* Adjusted Percent Bio- degraded (%)		-5.6	100.0	3.8	48.5



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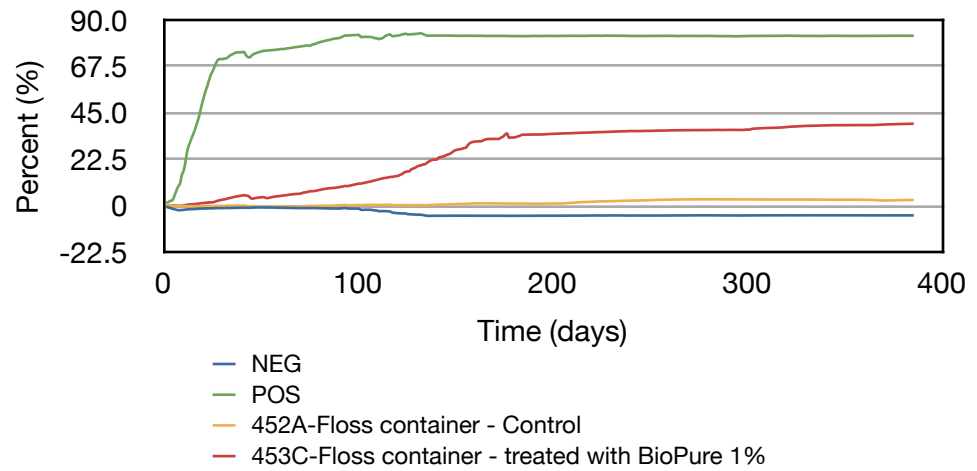
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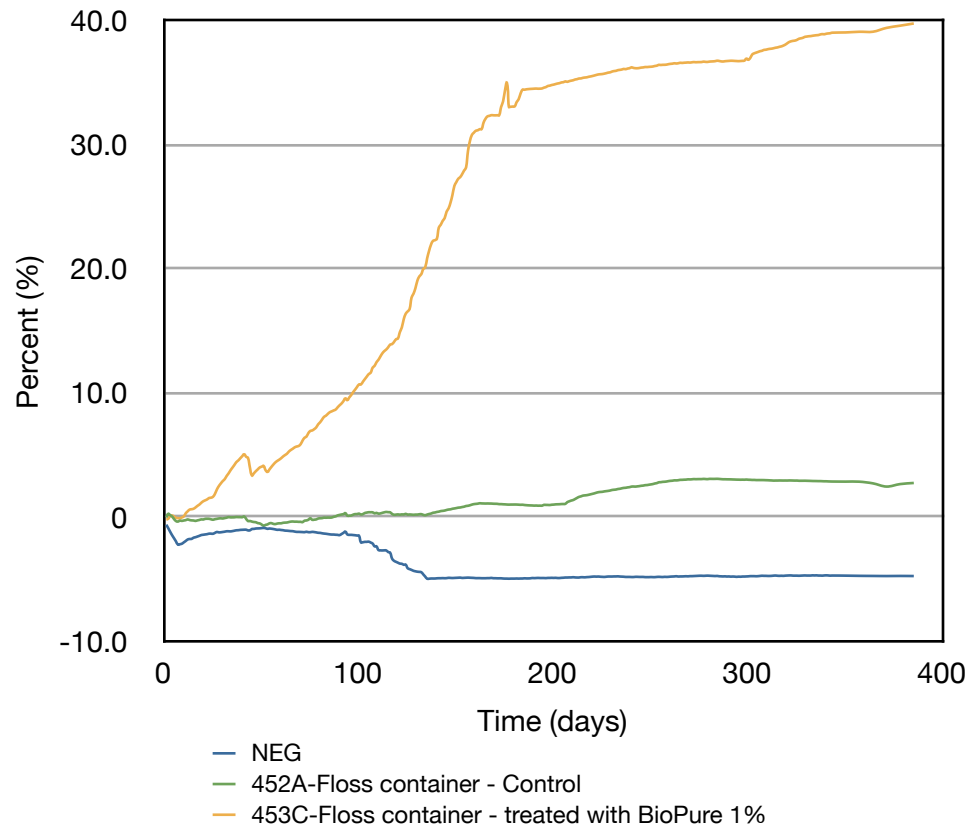
M 505.550.9316

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Biodegradation



Biodegradation



The treated samples are still moving upward and appear to have no imminent end in sight until fully degraded. To fully biodegrade it is likely to take another year or more.

* Outside of the ASTM D5511 method and on the assumption that the positive control (Cellulose) will full biodegrade. All values have been proportionally adjusted.

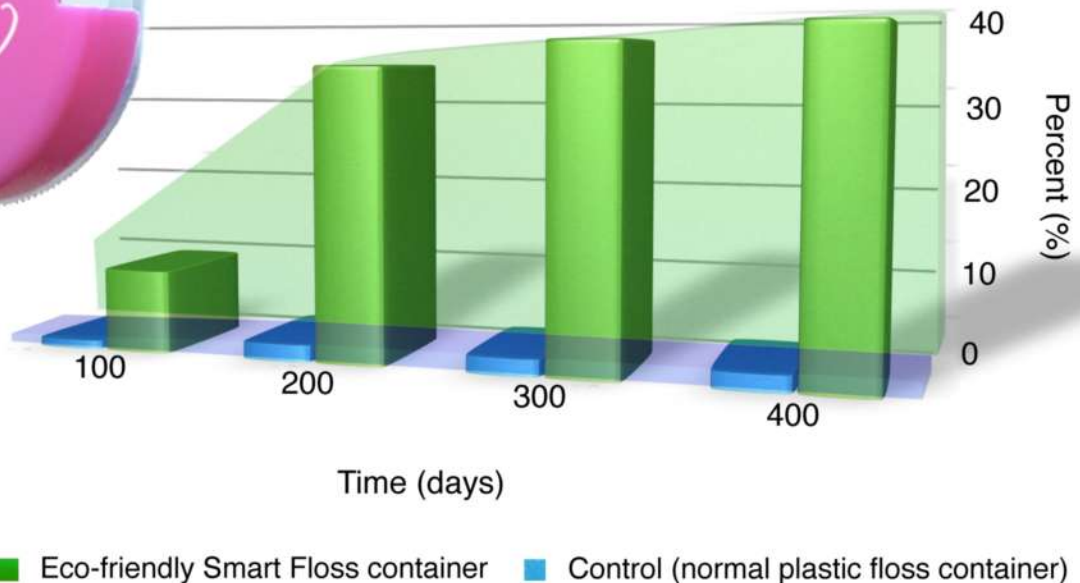


47-416 Lulani Street, Suite D
Kaneohe, HI 96744
Tel: 808 239 5799 Fax: 808 239 5299
e-mail: info@drtungs.com

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Biodegradation of Smart Floss Container in a landfill



Summary:

After 385 days, the eco-friendly Smart Floss containers are 40% biodegraded, and are continuing to biodegrade. It is projected to take only a few more years to fully biodegrade.

These are pretty awesome results when compared to regular plastic, which can sit in a landfill for 50-100 years without biodegrading.

* The Smart Floss container is as shelf-stable as regular plastic and is also fully recyclable. These tests indicate that if the container is placed in the waste stream and ends up in a landfill, it will biodegrade within 3-5 years.