



Eden Research Laboratory

To: Biosphere

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Regarding: ASTM D5511 Biosphere Study update (1445 days)

Update

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	Inoculum	Negative	Positive	APEX PE STRETCH FILM CONTROL	APEX PE STRETCH FILM W/ BIOSPHERE
Cumulative Gas Volume (mL)	3174.3	2747.1	11512.7	2969.2	30638.9
Percent CH ₄ (%)	48.3	47.2	41.4	41.6	54.1
Volume CH ₄ (mL)	1534.1	1296.8	4762.0	1235.9	16569.4
Mass CH ₄ (g)	1.10	0.93	3.40	0.88	11.84
Percent CO ₂ (%)	37.6	37.7	42.2	37.8	34.7
Volume CO ₂ (mL)	1193.0	1034.7	4857.1	1123.3	10618.1
Mass CO ₂ (g)	2.34	2.03	9.54	2.21	20.86
Sample Mass (g)	10	10	10	20.0	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	17.1	17.1
Biodegraded Mass (g)	1.46	1.25	5.15	1.26	14.56
Percent Biodegraded (%)		-2.5	87.5	-1.2	76.5
* Adjusted Percent Biodegraded (%)		-2.8	100.0	-1.3	87.4

* The adjusted % biodegraded values are for informational purposes. It is not part of the method and will not be reported in the final report.

Biodegradation

