



Eden Research Laboratory

To: Biosphere

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Regarding: ASTM D5511 Biosphere Study update (1442 days)

Update

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	Inoculum	Negative	Positive	APEX PE SHRINK FILM CONTROL	APEX PE SHRINK FILM W/ BIOS-PHERE
Cumulative Gas Volume (mL)	4533.2	4059.7	12947.2	3826.8	34714.1
Percent CH ₄ (%)	50.8	50.1	43.3	49.7	54.6
Volume CH ₄ (mL)	2301.2	2035.9	5602.9	1901.0	18968.8
Mass CH ₄ (g)	1.64	1.45	4.00	1.36	13.55
Percent CO ₂ (%)	36.7	36.7	41.4	35.7	35.1
Volume CO ₂ (mL)	1661.6	1490.8	5354.1	1364.4	12178.4
Mass CO ₂ (g)	3.26	2.93	10.52	2.68	23.92
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)	2.12	1.89	5.87	1.75	16.69
Percent Biodegraded (%)		-2.7	88.8	-2.2	85.0
* Adjusted Percent Biodegraded (%)		-3.1	100.0	-2.5	95.7

* 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

