



Eden Research Laboratory

To: BioSphere

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Regarding: ASTM D 5511-11 test update for White Bags LDPE- 856 days

Update

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	Inculum	Negative	Positive	865 - White Bags LDPE
Cumulative Gas Volume (mL)	2375.4	2289.0	11198.1	14608.4
Percent CH ₄ (%)	44.2	41.6	41.8	53.9
Volume CH ₄ (mL)	1049.1	951.4	4678.3	7877.8
Mass CH ₄ (g)	0.75	0.68	3.34	5.63
Percent CO ₂ (%)	40.3	38.8	41.9	35.5
Volume CO ₂ (mL)	957.7	887.9	4690.2	5186.1
Mass CO ₂ (g)	1.88	1.74	9.21	10.19
Sample Mass (g)	1,000	10	10	8.0
Theoretical Sample Mass (g)	0.0	8.6	4.4	6.9
Biodegraded Mass (g)	1.08	0.99	5.02	7.00
Percent Biodegraded (%)		-1.0	89.2	86.4

Biodegradation

