

Eden Research Laboratory

Date: April 2, 2019

Number of pages including cover: 2

Regarding: ASTM D 5511 study update for BOPP Film - 378 days

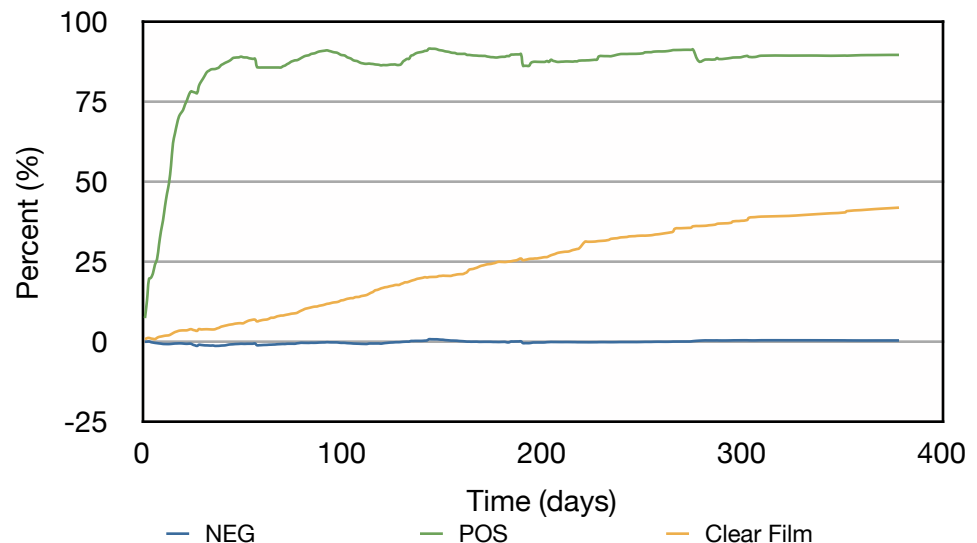
Update

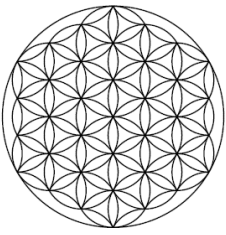
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	Inculum	Negative	Positive	Clear Film
Cumulative Gas Volume (mL)	3398.0	3555.3	12108.1	18015.7
Percent CH ₄ (%)	50.2	49.8	40.7	54.1
Volume CH ₄ (mL)	1704.4	1770.5	4928.2	9741.8
Mass CH ₄ (g)	1.22	1.26	3.52	6.96
Percent CO ₂ (%)	37.1	35.3	42.1	36.8
Volume CO ₂ (mL)	1261.3	1255.3	5096.4	6624.6
Mass CO ₂ (g)	2.48	2.47	10.01	13.01
Sample Mass (g)	10	10	10	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	17.1
Biodegraded Mass (g)	1.59	1.62	5.37	8.77
Percent Biodegraded (%)		0.4	89.6	41.9
* Adjusted Percent Biodegraded (%)		0.4	100.0	46.7

* 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





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