



**苏大山山海** [[]

日期:2021年12月01日

第1页,共13页

委托单位:

Applicant

**光加加馬牌公司** 永大(中山)有限公司 广东省中山市小榄镇永宁工业大道46号

产品名称:

Name of Sample

可降解胶带

型号规格:

 $48mm \times 100m$ 

Type

检测类别: Test Purpose

- KI		1/2	
样品名称:	可降解胶带		
商标:	永大	规格型号等级	48mm×100m
生产日期:	2021.4.20	样品数量:	XIII SE
生产单位:	永大(中山)有限公司	,	NIT'S
样品接收日期:	2021年05月10日	报告发放日期:	2021年12月01日
测试周期:	2021年05月31日至2021年11月26日	样品参考信息:	/
检测依据:	GB/T 19277.1-2011 受控堆肥条件下标 二氧化碳的方法 第1部分:通用方法		解能力的测定 采用测定释放的
判定依据:	YZ/T0160.2-2017 邮政业封装用胶带统	第2部分:生物降解胶带	带 5.6生物降解性能
检测结论:	符合。详见本报告检测结果	N. KILL	12
备注	/		Zaratu III.

编制:

77. D. D. O.

**对**不知道原公司

签发日期: 2021年12月01日



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1 摘要

本试验检测了样品在受控堆肥条件下的最终需氧生物分解能力。在试验体系中,以样品作为的有机碳源,用无二氧化碳的空气以受控速率对试验混合物进行曝气。通过测定二氧化碳产生量来确定降解率。

在本试验条件下:

试验 45 天后,参比材料微晶纤维素的平均生物分解百分率是 77.78%;

测试样品(样品名称:可降解胶带)180天的平均生物分解百分率为91.96%,相对生物分解率为96.34%。依据YZ/T0160.2-2017邮政业封装用胶带第2部分:生物降解胶带5.6生物降解性能,该产品符合要求。

本试验过程满足如下条件:

试验前 10 天空白容器内产生的二氧化碳量的平均值为 68.99mg CO<sub>2</sub>/g 挥发性固体,在 50-150mg 范围内:试验第 45 天参比材料微晶纤维素平均生物分解百分率为 77.78%,大于 70%。

根据 GB/T 19277.1-2011 对结果有效性规定,本试验有效。

- 2 引言
- 2.1 试验名称受控堆肥条件下材料最终需氧生物分解能力的测定
- 2.2 试验目的测定样品在受控堆肥条件下的最终需氧生物分解和崩解程。
- 2.3 原理本测定方法在模拟的强烈需氧堆肥条件下,测定试验材料最终需氧生物分解能力和崩解程度。使用的培养土来自于稳定的、腐熟的堆肥,如可能,从城市固体废弃物中有机物的堆肥中获取。试验材料与培养土混合,导入静态堆肥容器。在该容器中,混合物在规定的温度、氧浓度和湿度下进行强烈的需氧堆肥。试验周期不超过6个月。在试验材料的需氧生物分解过程中,二氧化碳、水、矿化无机盐及新的生物质都是最终生物分解的产物。在试验中连续监测、定期测量产生的二氧化碳,累计产生的二氧化碳量。试验材料在试验中实际产生的二氧化碳量与该材料可以产生的二氧化碳的理论量之比为生物分解百分率。根据实际测量的总有机碳(TOC)含量可以计算出二氧化碳的理论释放量。生物分解百分率不包括已转化为新的细胞生物质的碳量,因为它在试验周期内不代谢为二氧化碳。

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KITILINE IR'A

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报告编号: A210511001001

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2.4 试验起止日期

接样日期: 2021年05月10日

检测启动日期: 2021年05月31日

检测完成日期: 2021年11月26日

检测机构信息

名称:安瑞检测认证(广东)有限公司

新大IIIIII III III A 地址: 东莞市厚街镇湖景大道高新科技园

电话: 86-769-8258 9333

参加试验人员

检测负责人: 陈海

检测人员: 陈坤、陈旭文

3 试验材料

样品名称:可降解胶带

性状: 带胶黏剂的透明塑胶

保存条件: /

上述信息由委托方提供。

3.2 试验条件

试验于 58°C±2°C恒温, 弱光, 没有任何会影响微生物生长的蒸汽条件下进行。

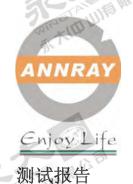
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大加州馬州公司

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**苏大田山馬**原公

Tel 4009008335 strial Zone, Houjie, Dongguan, Guangdong, China 523945





日期:2021年12月01日

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- (1)反应装置; (2)压<sup>炉</sup>
- (3)气体吸收装置:
- (4)气体流量控制器;
- (5)恒温装置。

## 试验前准备工作

接种物准备 4.1

自制堆肥接种物,除去杂质后通过 0.5cm 的筛子。

经测定,本试验所用堆肥:

水分含量 47.14%; 总干固体含量 52.86%; 挥发性固体含量 23.29%;

pH 值 8.2; 总碳含量 16.2%; 总氮含量 1.16%。

4.2 吸收瓶使用

每个吸收瓶中加入 400mL20g/L 的氢氧化钠溶液作为吸收剂,每个反应容器配备串联的三个吸收瓶。

- 4.3反应容器的数量
  - 3 个装试验材料的容器:
  - 3 个装阳性参比材料的容器;
  - 3 个空白容器。

#### 样品的准备 4.4

对样品进行粉碎处理。经测定,各项指标如下:

样品水分含量 1.39%; 总碳含量 54.23%。

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按照接种物与试验样品的干重比约为 6:1 的比例进行混合制备样品试验体系, 加 300g 接种物(干重 和 50g 样品(干重)到反应容器中进行试验。

4.5 参比物的准备

对参比物进行测定。参比材料水分含量为 3.73%,总碳含量为 42.36%。

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#### 试验方法

- (1) 用无 CO<sub>2</sub>的湿度饱和空气以恒定流量对试验体系进行曝气,于 58℃±2℃条件下进行试验。
- (2) 定期测量堆肥容器排出气中的氧气浓度,第一星期每天测定 2次,以后,测量次数可以减少,必 要时,调节空气流量。
  - (3) CO2的测定:

用氢氧化钠吸收法: 拆出直接连接防倒吸装置的氢氧化钠吸收瓶来测定, 其余两个吸收瓶顺序前移连接 至防倒吸装置,并在末端连接上一个新配制的氢氧化钠吸收瓶。拆下的吸收瓶用 HCl标准溶液进行滴定。

在开始的 45 天里,每天测定一次 CO2 的吸收量,45 天后每周测量 2 次 CO2 的吸收量。

- (4) 每天对试验装置进行气密性检查。
- (5) 每周对试验容器进行振荡混匀,同时测定混合物的 pH 值,并观察混合物的性状:如试验容器排放 表大IIIIIII 展 气的气味,堆肥湿度、色泽、霉菌生成,试验样品结构变化、崩解程度等。

### 结果有效性判断

- 6.1 45 天后参比材料的生物分解率超过 70% (实际结果: 77.78%)
  - 6.2 前 10 天内, 空白容器中堆肥接种物产生 50-150mg CO2/g 挥发性固体(实际结果: 68.99mg)
  - 6.3 试验结束时每个堆肥容器的生物分解百分率之间的相对偏差不超过20%。
    - (1) 参比材料 3 个反应瓶在试验结束时(第 180 天)的生物分解百分率分别为: 95.70%, 95.35%, 95.29%; 3 个反应瓶的生物分解百分率相对偏差<20%。
    - (2) 试验样品 3 个反应瓶在试验结束时(第 180 天)的生物分解百分率分别为: 92.15%, 92.03%, 大山山海原公司 91.68%; 3个反应瓶的生物分解百分率相对偏差<20%。

### 数据结果

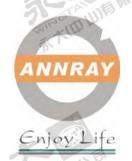
生物分解率结果摘要:

样	品类别	10天二氧化碳释放量/ 挥发性固体(mg/g)	45 天生物分解率 (%)	试验结束时(180天)最终 生物分解率(%)	试验结束时(180天)相 对生物分解率(%)
7	样品	XXIII	1 48	91.96	96.34
参	比材料	/	77.78	95.45	
3	空白	68.99	/ <del>*</del>	/	TO WIE WAY

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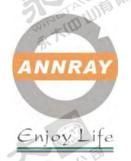
7.2 测试过程	程中二氧化碳累计产	生量及降解率:	(Single)		
时间	平均累计 CO₂产生量(g/容器)			平均累计降解率(%)	
(天)	空白容器	参比材料	试验材料	参比材料	试验材料
1	0.65	0.67	0.78	0.03	0.13
2	1.17	1.51	1.57	0.44	0.40
3	1.67	2.35	2.24	0.88	0.58
4	2.13	3.20	2.92	1.38	0.79
5	2.59	4.22	3.97	2.10	1.39
6	3.05	5.21	5.02	2.79	1.98
7	3.52	6.36	6.21	3.66	2.71
8	3.95	7.57	7.67	4.66	3.74
9	4.39	8.78	9.14	5.66	4.78
10	4.82	9.99	10.60	6.66	5.81
11	5.23	11.13	11.87	7.60	6.68
12	5.56	12.35	13.28	8.73	7.76
13	5.90	13.56	14.69	9.87	8.84
14	6.23	14.77	16.09	11.00	9.92
15	6.56	15.99	17.50	12.13	11.00
16	6.90	17.70	18.91	13.91	12.08
17	7.23	19.41	20.31	15.69	13.16
18	7.58	21.04	21.58	17.34	14.08
19	8.01	22.67	22.86	18.89	14.94
20	8.42	24.30	24.15	20.46	15.82
21	8.82	25.93	25.46	22.04	16.74
22	9.20	27.56	26.78	23.65	17.69
23	9.54	29.19	27.75	25.30	18.32
24	9.91	30.96	28.62	27.11	18.82
25	10.28	33.13	29.49	29.43	19.32
26	10.65	35.40	30.36	31.87	19.83
27	11.02	37.67	31.23	34.32	20,33
28	11.39	39.94	32.10	36.76	20.83
29	11.76	42.21	32.97	39.21	21.34
30	12.13	44.35	33.76	41.48	21.75
31	12.50	46.48	34.54	43.75	22.17

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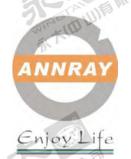
771.					
时间	平均累计 CO₂产生量 (g/容器)			平均累计降解率(%)	
(天)	空白容器	参比材料	试验材料	参比材料	试验材料
32	12.87	48.61	35.32	46.02	22.58
33	13.27	50.88	36.19	48.43	23.06
34	13.67	53.14	37.06	50.83	23.53
35	14.06	55.40	37.92	53.23	24.00
36	14.46	57.67	38.79	55.64	24.47
37	14.86	59.93	39.66	58.04	24.95
38	15.25	62.19	40.52	60.45	25.42
39	15.64	64.50	41.28	62.92	25.79
40	16.03	66.81	42.04	65.40	26.17
41	16.41	69,12	42.80	67.87	26.55
42	16.80	71.43	43.56	70.35	26.92
43	17.19	73.74	44.32	72.83	27.30
44	17.57	76.05	45.08	75.30	27.67
45	17.96	78.36	45.84	77.78	28.05
46	18.34	79.23	46.48	78.40	28.30
47	18.73	80.10	47.11	79.03	28.55
48	19.11	80.96	47.74	79.65	28.80
49	19.49	81.83	48.38	80.27	29.05
50	19.88	82.70	49.01	80.89	29.30
51	20.26	83.56	49.64	81.52	29.56
52	20.69	84.26	50.25	81.85	29.73
53	21.13	84.95	50.86	82.19	29.91
54	21.56	85.64	51.47	82.52	30.09
55	21.99	86.34	52.08	82.85	30.27
56	22.43	87.03	52.69	83.19	30.44
57	22.86	87.72	53.30	83.52	30.62
58	23.29	88.42	53.91	83.86	30.80
59	23.64	89.05	54.54	84.23	31.08
60	23.99	89.69	55.17	84.60	31.36
61	24.34	90.33	55.80	84.97	31.64
62	24.69	90.96	56.43	85.34	31.93
63	25.04	91.60	57.06	85.70	32.21

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Tiles	X-				
时间	平均累计 CO₂产生量(g/容器)			平均累计降解率(%)	
(天)	空白容器	参比材料	试验材料	参比材料	试验材料
64	25.39	92.24	57.69	86.07	32.49
65	25.74	92.87	58.32	86.44	32.77
66	26.09	93.49	59.28	86.79	33.38
67	26.50	94.11	60.23	87.05	33.92
68	26.91	94.72	61.18	87.32	34.47
69	27.32	95.34	62.14	87.58	35.02
70	27.73	95.96	63.09	87.85	35.56
71	28.14	96.57	64.04	88.12	36.11
72	28.55	97.19	65.00	88.38	36.66
73	28.93	97.72	66.27	88.58	37.56
74	29.28	98.26	67.55	88.82	38.49
75	29.64	98.79	68.83	89.05	39.42
76	29.99	99.32	70.10	89.28	40.35
77	30.34	99.86	71.38	89.51	41.28
78	30.70	100.39	72.66	89.74	42.21
79	31.05	100.92	73.93	89.98	43.13
80	31.43	101.44	74.79	90.16	43.62
81	31.80	101.96	75.65	90.34	44.11
82	32.18	102.48	76.51	90.53	44.59
83	32.56	103.00	77.37	90.71	45.08
84	32.93	103.52	78.23	90.90	45.57
85	33.31	104.04	79.09	91.08	46.05
86	33.69	104.56	79.95	91.27	46.54
87	34.03	105.10	80.60	91.51	46.84
88	34.38	105.63	81.25	91.75	47.15
89	34.73	106.16	81.90	91.99	47.45
90	35.07	106.70	82.55	92.23	47.76
91	35.42	107.23	83.20	92.47	48.06
92	35.77	107.76	83.85	92.71	48.37
96	36.26	108.47	86.60	92.99	50.64
100	36.70	109.03	88.66	93.14	52.27
104	37.14	109.59	91.46	93.29	54.64

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3,		100			
时间	平均	平均累计 CO₂产生量(g/容器)		平均累计降解率(%)	
(天)	空白容器	参比材料	试验材料	参比材料	试验材料
107	37.53	110.12	93.58	93.47	56.37
111	37.96	110.65	96.16	93.60	58.54
115	38.39	111.19	98.74	93.74	60.70
118	38.79	111.66	100.95	93.83	62.52
120	39.13	112.03	102.75	93.87	63.99
123	39.53	112.50	104.96	93.96	65.81
126	39.89	112.91	108.13	94.03	68.64
129	40.25	113.33	111.30	94.10	71.46
132	40.61	113.75	114.47	94.17	74.28
135	40.97	114.11	116.96	94.19	76.43
138	41.31	114.48	119.45	94.22	78.59
142	41.65	114.90	121.73	94.32	80.54
146	41.99	115.32	124.00	94.42	82.49
150	42.34	115.74	126.28	94.52	84.43
153	42.63	116.10	128.16	94.61	86.03
156	42.92	116.47	130.03	94.70	87.62
159	43.22	116.83	131.91	94.79	89.21
163	43.59	117.28	132.82	94.90	89.75
167	43.95	117.74	133.73	95.01	90.30
171	44.32	118.19	134.63	95.12	90.84
174	44.66	118.61	135.34	95.23	91.21
177	45.00	119.04	136.05	95.34	91.59
180	45.34	119.46	136.76	95.45	91.96
	45.34	RIGHT			

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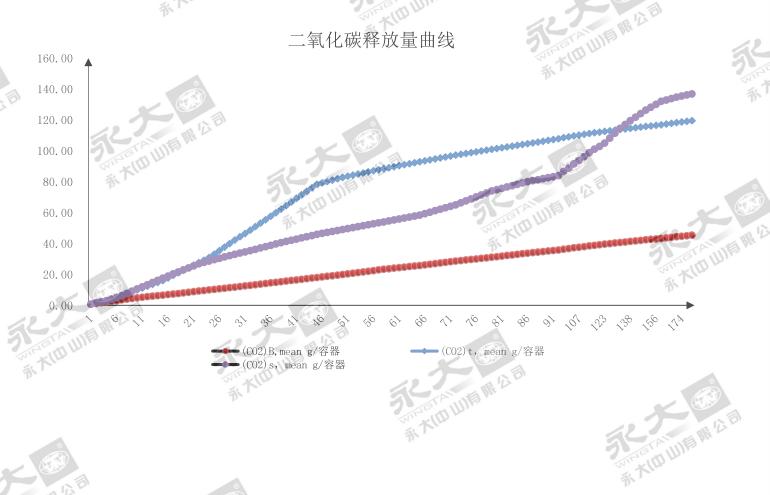


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时间-二氧化碳释放量(平均值)曲线图 7.3



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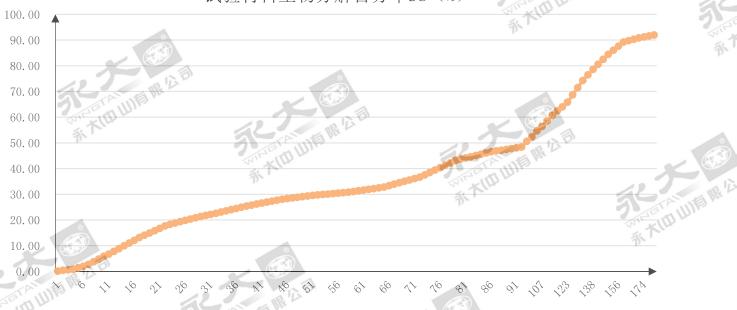
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7.4 试样材料的时间-生物分解百分率(平均值)曲线图

# 试验材料生物分解百分率Ds(%)



**苏大山山海**原公司 试验材料生物分解百分率Ds

#### 依据

国家标准 GB/T 19277.1-2011, 受控堆肥条件下材料最终需氧生物分解能力的测定采用测定释放的二氧化 碳的方法第1部分:通用方法

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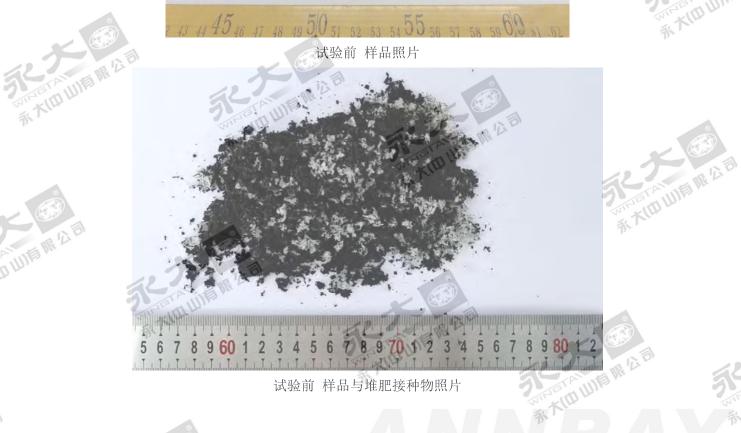
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试验前 样品照片



试验前 样品与堆肥接种物照片

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**发展的**加度是



试验后(第180天) 样品与堆肥接种物照片

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