

No. : GZMR231003009401 Date : Dec 15, 2023 Page: 1 of 10



CUSTOMER NAME:	GUANGDONG YUANCHANG ZERO CARBON ECOLOGICAL
	ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD
ADDRESS:	4TH FLOOR, A3 FACTORY BUILDING, HUA XIN HUI GU(EAST
	GATE), 10 CHUANGXING 2ND ROAD, HIGH-TECH INDUSTRIAL
	DEVELOPMENT ZONE, QINGYUAN, GUANGDONG, CHINA

Sample Name : CUTLERY SET

Product or Lot No. : 20231011

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No.	:	GZF23-0010915
Date of Receipt	:	Oct 17, 2023
Testing Start Date	:	Oct 17, 2023
Testing End Date	:	Dec 15, 2023
Test result(s)	:	For further details, plea (Unless otherwise state

For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

May Huo Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Biodegradation Test (Composting Method)	ISO 14855-1:2012	See result	1

Note: Pass : Meet the requirements;

Fail : Does not meet the requirements;

/: Not Apply to the judgment.

Original Sample Photo:





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Test Item: Biodegradation Test (Composting Method) Sample Description: Finished product Test Method: ISO 14855-1:2012 Test Condition: Test temperature: (58±2)°C Composting vessel volume: 3.8L Numbers of composting vessels: 3 vessels for test material 3 vessels for test material 3 vessels for reference material 3 vessels for blank Reference material: Cellulose (HPLC) Source of compost: Self made Test period: 45 days Test period: 2023-10-18~2023-12-02

Test Result:

Sampla	Percentage of biodegradation	Percentage of relative	
Sample	(See note 1)	biodegradation (See note 2)	
Test material	88.9%	102.9%	
Reference material	86.4%	- 102.970	

Validity criteria:	Result	Determine
The inoculum in the blank has produced more than 50 mg but less than 150 mg of carbon dioxide per gram of volatile solids (mean values) after 10 days of incubation.	135.6mg CO ₂ /g of volatile solids (mean values)	
The degree of biodegradation of the reference material is more than 70 % after 45 days	86.4%	Test is valid
The difference between the percentage of biodegradation of the reference material in the different vessels is less than 20 % at the end of the test	The differences were 0.1%, 0.9%, 0.8%	



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Original data:

Date	Average of test material CO ₂ production (g/ vessel)	Average of reference material CO ₂ production (g/ vessel)	Average of blank vessel CO ₂ production (g/ vessel)	Average of test material biodegradation	Average of reference material biodegradation
1	19.22	5.38	4.23	9.3%	0.7%
2	49.40	14.70	10.46	24.2%	2.7%
3	73.32	39.08	15.78	35.7%	14.9%
4	92.47	61.45	20.74	44.5%	26.1%
5	111.62	83.83	25.70	53.3%	37.2%
6	121.86	96.73	27.90	58.3%	44.1%
7	131.41	108.70	29.87	63.0%	50.5%
8	140.21	121.08	31.98	67.2%	57.0%
9	145.08	128.05	33.33	69.4%	60.6%
10	150.59	135.44	34.81	71.9%	64.4%
11	154.71	140.33	36.14	73.6%	66.7%
12	158.83	145.21	37.46	75.3%	69.0%
13	161.65	149.24	38.55	76.4%	70.9%
14	164.33	153.18	39.64	77.4%	72.7%
15	167.77	157.13	40.73	78.9%	74.5%
16	169.53	159.73	41.62	79.4%	75.6%
17	171.96	162.45	42.68	80.3%	76.7%
18	173.86	164.27	43.46	81.0%	77.3%
19	175.77	166.09	44.24	81.7%	78.0%
20	177.06	167.88	45.07	81.9%	78.6%
21	181.01	171.24	47.06	83.2%	79.5%
22	184.76	174.85	49.81	83.8%	80.1%
23	187.06	177.27	51.71	84.0%	80.4%
24	189.46	179.58	53.47	84.4%	80.7%



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Date	Average of test material CO ₂ production (g/ vessel)	Average of reference material CO ₂ production (g/ vessel)	Average of blank vessel CO ₂ production (g/ vessel)	Average of test material biodegradation	Average of reference material biodegradation
25	191.47	181.54	54.94	84.8%	81.1%
26	193.48	183.51	56.40	85.1%	81.4%
27	194.78	184.94	57.55	85.2%	81.6%
28	196.22	186.27	58.69	85.4%	81.7%
29	197.82	188.10	60.06	85.5%	82.0%
30	199.10	189.31	60.98	85.7%	82.2%
31	202.92	193.79	64.02	86.2%	83.1%
32	206.66	196.90	67.27	86.5%	83.0%
33	210.26	200.01	70.53	86.7%	82.9%
34	213.45	203.18	73.28	87.0%	83.2%
35	216.37	206.17	75.80	87.3%	83.5%
36	219.43	209.40	78.47	87.5%	83.8%
37	222.42	212.27	81.05	87.8%	84.0%
38	225.28	215.65	83.52	88.0%	84.6%
39	227.56	217.91	85.54	88.2%	84.7%
40	229.76	220.25	87.50	88.3%	85.0%
41	231.38	221.79	88.84	88.5%	85.1%
42	233.00	223.69	90.29	88.6%	85.4%
43	234.78	226.26	91.89	88.7%	86.0%
44	236.40	227.87	93.37	88.8%	86.1%
45	237.96	229.79	94.80	88.9%	86.4%



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TEST REPORT

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Note:

1. Percentage of biodegradation (%) = [Average total CO_2 production (g) – Average of blank vessel total CO_2 production (g)] / Material theoretical amount of CO_2 production (g) ×100.

2. Percentage of relative biodegradation (%) = Percentage of biodegradation for test material (%) / Percentage of biodegradation for reference material (%)×100.

3. Method of CO_2 determination: The CO_2 in the exhaust air was determined by measuring the gain in mass of CO_2 trapped by absorbents.

4. Properties of test material:

Sample		Total dry solids(%)	Total organic	Theoretical amount of
	Dry solids(g)		carbon(TOC) in	CO_2 production (CO_2 g /
			dry solids (%)	vessel)
Tested material	100	89.9	43.93	161.08
Reference material	100	96.2	42.60	156.20

5. Properties of compost:

Dmraalida	Total dm/	Volatila	Total organic	Total organic	The ratio between	
Dry solids		volatile	carbon(TOC) in	nitrogen in dry	organic carbon and	рН
(g)	solids(%)	solids(%)	dry solids (%)	solids (%)	nitrogen	
600	52.3	42.8	20.04	1.25	16.0	8.20

Test Photo:





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Equipment Information:

Equipment	Model	Equipment No	Calibration	Next Calibration
Equipment	Model	Equipment No.	date	date
Material				
Biodegradability Test	TG-2000-AT	GZMR-AG-E306	2023-02-28	2024-02-27
System				
Electronic balance	XPR504S/AC	GZMR-AG-E295	2023-09-13	2024-09-12
Electronic balance	BPS15K05	GZMR-AG-E107-04	2023-06-15	2024-06-14
Electron balance	MS1602TS/02	GZMR-AG-E281	2023-03-20	2024-03-19
Oven	UF110	GZMR-PL-E234	2023-04-20	2024-04-19
High Temperature	E0610C	G7MR-PL-E058-07	2023-08-11	2024-08-10
Furnace	100100		2023-00-11	2024-00-10
pH Meter	S220	GZMR-AG-E040-07	2023-04-21	2024-04-20
Organic element	Flash SMART	G7MR-PL-E331	2023-05-16	2024-05-15
analyzer			2020 00-10	2024 00-10

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