	Biodegradable Plastic	No. 84
Y Green Mark	Green Mark Products Category No.	Category No. D-07
1. Scope		
This standard appl	ies to products made from biodegradable	plastics.
2. Terms and definitio	ns	
For the purpose of	this standard, the following terms and de	finitions shall apply.
Biodegradable pla	stics: Plastics which can be degraded throu	ugh reactions initiated
by natural microor	ganisms such as bacteria, molds, and algae	2.
3. Product characteris	tics	
•	norganic fillers in the products shall be les	
•	degree of biodegradability and disintegrat	ion shall meet the
regulatory limi		
	all not contain non-biodegradable plastic	
-	contents of molybdenum, selenium, fluori	
	, mercury, chromium, and arsenic shall me	
•	all meet the non-toxic requirements as st	ipulated in the OECD
	ines for the Testing of Chemicals.	
•	all not contain hazardous substances assi	
	ations by the Globally Harmonized System	
-	emicals (GHS): H300, H301, H304, H310, H 334, H340, H350, H360, H361, H362, H370	
	413, and H420. The applicant shall provide	
	ients and associated safety data sheets (S	
	ain the ingredients' names, CAS Nos. and	•
	as well as relevant hazards and precaution	••
	its manufacturing processes shall not use	
•	EPA as toxic substances, and substances c	•
Montreal Proto		
4. Materials, accessor	ies and components	
	ht of additives or auxiliary substances (su	ch as binders, inks or
labels) in the p	roduct shall be less than 1% of the produc	t.
5. Test methods and r	egulatory limits	
The regulated s	substances and regulatory limits for this st	andard are listed
below. The app	licable test methods shall be the national	, international or
specific indust	ry standard methods, and the test reports	shall be issued by
accredited pro	fessional testing organizations.	
Date of Promulgation:		Date of Latest Revision:
July 21, 2004	Ministry of Environment	January 20, 2021
L	-1-	

Applicable Part	Regulated Substance	Regulatory Limit	Referenced Test Method
Plastic	biodegradability	≧90%	CNS14432-1 ISO 14855-1
Plastic	disintegration degree	≧ 90%	CNS 15262 CNS 15362 CNS 14432-1 ISO 16929
Plastic	molybdenum	<1 mg/kg	US EPA 3050
Plastic	selenium	<0.75 mg/kg	US EPA 3050
Plastic	fluorine	<100 mg/kg	NIEA M402 EN 14582
Plastic	zinc	<150 mg/kg	US EPA 3051
Plastic	copper	< 50 mg/kg	US EPA 3050 US EPA 3051
Plastic	nickel	<25 mg/kg	US EPA 3050 US EPA 3051
Plastic	cadmium	<0.5 mg/kg	CNS 15050 US EPA 3050 US EPA 3051 US EPA 3052
Plastic	lead	< 50 mg/kg	CNS 15050 US EPA 3050 US EPA 3051 US EPA 3052
Plastic	mercury	<0.5 mg/kg*	CNS 15050 US EPA 3050 US EPA 3051 US EPA 3052
Plastic	chromium	<50 mg/kg	US EPA 3050 US EPA 3051
Plastic	arsenic	< 5 mg/kg	US EPA 3050
Plastic	Toxicity test	Non-toxic requirements in OECD No. 208 Guidelines for the Testing of Chemicals	OECD 208

\*: The test report shall provide evidence that the employed test methods have detection limits of less than 1/3 of the regulatory limits.

## 6. Packaging

The materials of the product packaging shall meet the requirements of the *Guidelines on Review of Applications for Qualified Environmental Protection Products.* 

## 7. Labeling

7.1 The name, address and consumer hotline of the Green Mark user shall be clearly marked on the product or its packaging.

7.2 The product or product packaging shall bear a label reading "Biodegradable Plastic".

## 8. Other requirements

- 8.1 For products with the same ingredients and proportion, but differ in shape or packaging quantity, the relevant test results of the thickest product may be referenced.
- 8.2 For products of different colors, if the ingredients and their proportion are the same except the difference in added masterbatch(es), if the total weight of the masterbatches are less than 1% of the product weight, there is no need to test the biodegradability, disintegration degree and non-toxicity of different color products separately.
- 8.3 When applying for a new Green Mark certificate, if the product ingredients and proportion remain the same as those in the original application documents, the biodegradability, disintegration degree and non-toxicity test results of the previous application may be referenced.
- 8.4 The sampling of the product shall be conducted by the representatives from both the Taiwan EPA registered inspection and testing organization and the product manufacturer together, at the site where the product is being sold, in a random manner; if necessary, the Taiwan EPA may also send its representative(s) to take part in the joint sampling at the product manufacturing site.

## **Revision History:**

First revision: December 27, 2013 Second revision: January 20, 2021