

**Job Number 工作編號:** 1903F006 **Date :** 29-04-19  
**Sample Description 樣品描述:** Eco-Park Oxo-biodegradable paper cup **Page** 1 of 4  
 Eco-Park 氧化生物可降解紙杯  
**Sample Source 樣品來源:** Eco-Park Holdings Limited  
 L, 11/F, Block 4, Golden Dragon Industrial Centre,  
 182-190 Tai Lin Pai Road, Kwai Chung, Hong Kong  
**Sampling Done by 抽樣負責:** The above company 上述公司  
**Receipt Date 樣品收取日期:** 29-04-19  
**Test Performing Date 測試進行日期:** 27-03-19 to 29-04-19  
**Nature of Test 試驗規格:** Accelerated Weathering and Tensile Test  
 加速天候老化測試及拉伸測試

## Test Results 測試結果:

### I. Sample Description

#### 樣品描述:

A piece of sample was submitted by the client and sample information supplied by the client is shown as follows:

客人提供了一包樣品,客人提供的樣品資料如下:

Sample ID 樣品編號	Sample Description 樣品描述
1	Eco-Park Oxo-biodegradable paper cup Eco-Park 氧化生物可降解紙杯

### II. Objective

#### 測試目的:

To evaluate the degradation performance of the submitted sample.  
 測試樣本的光降解程度.

### III. Methods

#### 測試方法:

ASTM D5208-09 & ASTM D3826-98(Reapproved 08)

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## Test Results 測試結果:

### IV. Equipment and Conditions

#### 儀器:

#### 1. UV-Degradation Test 光降解測試

Equipment: Q-Lab QUV Accelerated Weathering Tester,  
儀器: Q-Lab QUV 紫外加速老化試驗機,  
Light source: UVA-340  
光源: UVA-340  
Exposure duration: 14 days  
照光時間: 14 天  
Weathering Cycle: Continuous UV with uninsulated black panel temperature  
照光條件: controlled at 50°C (Requested by the client)  
不間斷的紫外光, 溫度控制於50°C (根據客人的要求)

#### 2. Tensile Test 拉伸測試

Equipment: LLOYD LR 10K plus (no extensometer)  
儀器: LLOYD LR 10K plus (不設引伸計)  
Grip separation: 50mm  
夾具間的距離: 50毫米  
Crosshead speed: 5mm/min  
試驗速度: 每分鐘5毫米  
Grips used: Serrated grips  
夾具類型: 鋸齒夾具

### V. Specimen preparation

#### 樣品製備方法:

Equipment: JDC sample cutter  
儀器: JDC 樣品切割機  
Specimen dimension: 130mm x 25.4mm x 0.032mm  
樣品尺寸: 130毫米 x 25.4毫米 x 0.032毫米

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## Materials Testing Laboratory

## TEST REPORT

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## Test Results 測試結果:

## VI. Results

測試結果:

## Day 0

## 第 0 天

Trial 試樣	Percentage Elongation at Break 斷裂伸長百分比 (%)
1	70
2	69
3	33
4	53
5	60
Average 平均值	57

## Day 14

## 第 14 天

Trial 試樣	Percentage Elongation at Break 斷裂伸長百分比 (%)
1	5.0
2	4.9
3	0.0*
4	0.0*
5	0.0*
Average 平均值	2.0

\*Test specimens broke before they were taken for tensile test.

樣品在拉伸測試前已斷裂

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**Test Results 測試結果:****VII. Conclusion****結論:**

From the result of the UV degradation test by accelerated weathering, Sample 1 conform to the degradation requirement of ASTM D3826 (degraded to 5% elongation or less at break) after exposure under UV-A for 14 days.

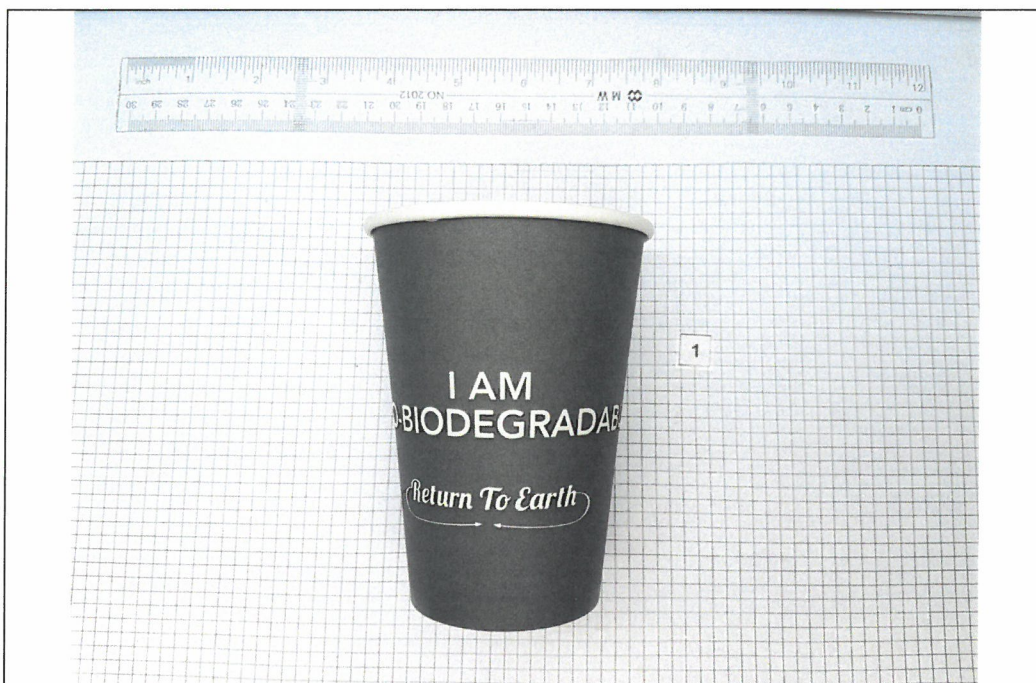
在光降解的測試中，樣品 1 經過 14 日的加速天候老化的測試下，符合 ASTM D3826 標準的降解要求（降解至斷裂伸長的 5%）。

  
Mr. TAM Yui-kei

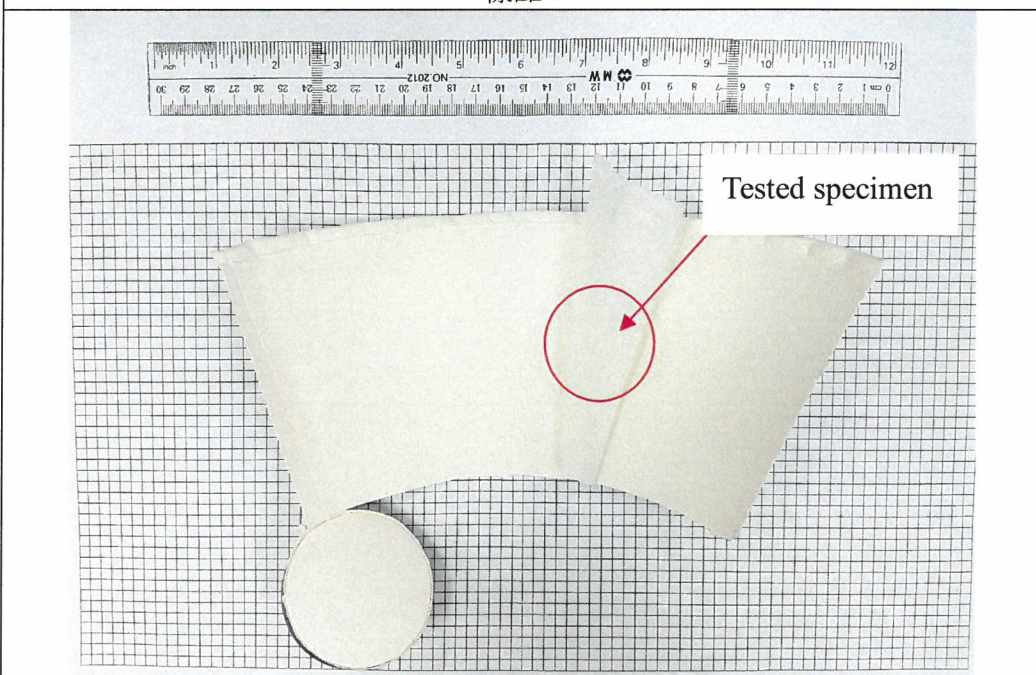
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Sample 1  
樣品 1



Tested specimen of Sample 1  
樣品 1 的測試試樣