



TEST REPORT

Job Number : 0406F005

Date : 04-06-04

Sample Description : Plastic bag

Page1 of 2

Receipt Date : 14-05-04

Test Performing Date : 14-05-04 to 01-06-04

Nature of Test : Accelerated Weathering, Heat Aging and Tensile Test

Test Results :

I. Sample Description:

One plastic bag sample was submitted by the client.
The sample information is shown as follows:

Sample No.	Sample	Description
1	Plastic bag	Standard Chartered Bank Plastic bag with blue printing code number: SC1139

II. Objective:

Evaluation of degradation performance of plastic bag

III. Method:

In accordance to ASTM G154, D3826.

IV. Equipments:

- Accelerated Weathering:
Tester: QUV Accelerated Weathering Tester, Q-Panel Lab Products.
Light source: UVA-340.
Duration: 168 hours
- Tensile test machine: LLOYD LR 10K plus



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Test Results :


V. Results:

Photo-Degradation Testing:

Sample No.	Sample	Exposure (Day)	% Elongation at Break	% Retained
1	Plastic bag	0	375.33	Nil
		2	20.77	5.53
		4	7.46	2.25
		5	4.53	1.21
		7	*	*

Please see Annex 1 for the raw data.

* All specimens had been broken between the 5th and 7th day of exposure on Photo-Degradation Test.


Dr. Kinny L. K. Yeung
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General Manager - Materials Technology Division



Your ref:
Our ref: 0406F005
Our E-mail:

Annex 1

Test Condition:

- Temperature: 50 °C

Table 1: Raw Data of Tensile Test Measurement of UV treatment

Measurement / Day	Day 0	Day 2	Day 4	Day 5	Day 7
1	363.72	22.10	6.89	5.35	
2	365.50	20.86	7.81	5.41	
3	365.90	19.97	7.49	4.12	
4	406.20	20.17	11.65	3.22	Nil
Average	375.33	20.77	8.46	4.53	
SD	20.60	0.96	2.16	1.06	
% Retained	Nil	5.53	2.25	1.21	