

TEST REPORT

No. : GZIN1709043762PS

Date : Sep 19, 2017

Page: 1 of 11

CUSTOMER NAME: DONGGUAN SML PLASTIC TECHNOLOGY CO., LTD.
ADDRESS: NO.9, YONGSHENG ROAD, WULIAN VILLAGE, FENGGANG TOWN,
DONGGUAN CITY GUANGDONG PROVINCE, CHINA.

Sample Name : PVC INFILL
Manufacturer : DONGGUAN SML PLASTIC TECHNOLOGY CO., LTD.

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. : GZIN1709043873MR
Date of Receipt : Sep 11, 2017
Testing Start Date : Sep 11, 2017
Testing End Date : Sep 19, 2017
Test result(s) : 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. GZ Branch Testing
Center



Eleain Fan
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Materials Laboratory

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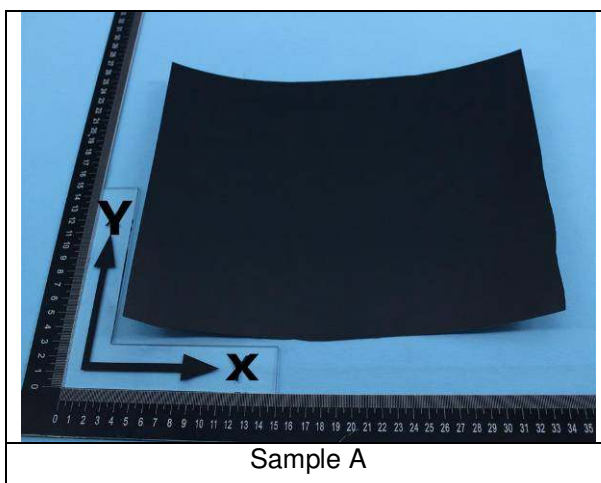
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Summary of Results:

No.	Test Item	Test Method	Result		Conclusion	
1	Light Ageing Test-UV Exposure	ASTM G154-16 Cycle 1	See results		/	
2	Tear Strength	ASTM D1004-13	As received	X direction	82.5N	/
				Y direction	88.2N	
			After light ageing	X direction	76.6N	
				Y direction	83.2N	
3	Tensile Test	ASTM D882-12	See results		/	

Note: Pass : Meet the requirements;
 Fail : Does not meet the requirements;
 / : Not Apply to the judgment.

Original Sample Photo:



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1. Test Item: Light Ageing Test-UV Exposure

Sample Description: See photo

Test Method: ASTM G154-16 Cycle 1

Test Condition:

Exposure cycle:

ASTM G154-16 Cycle 1

Lamp type: UVA-340

8h UV at (60±3)°C BPT, 0.89W/(m²·nm)@340nm

4h condensation at (50±3)°C BPT

Exposure duration: 24h

Test Result:

Test Item	Sample		Appearance
Light Ageing Test-UV Exposure	Tensile Test	X direction	No visual change
		Y direction	Visual deformation
	Tear Strength	X direction	No visual change
		Y direction	No visual change



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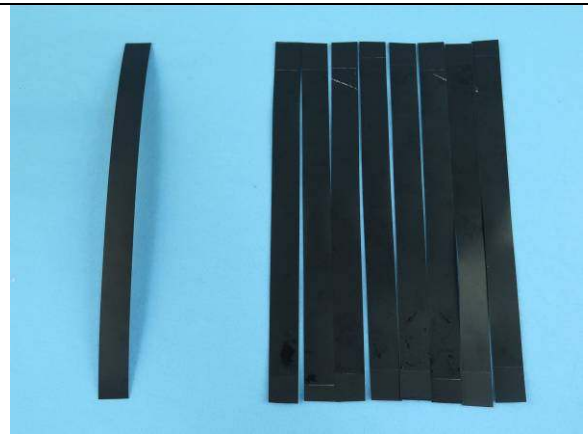
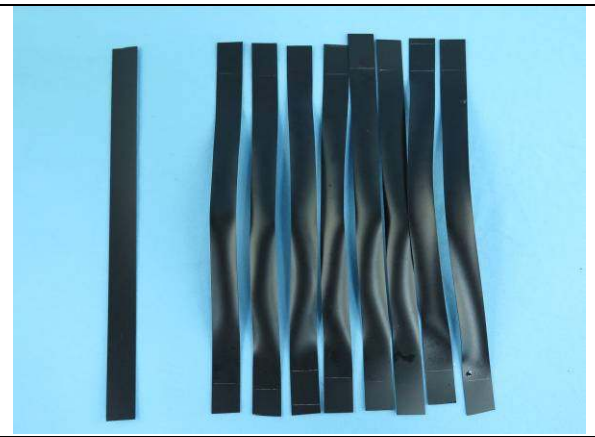
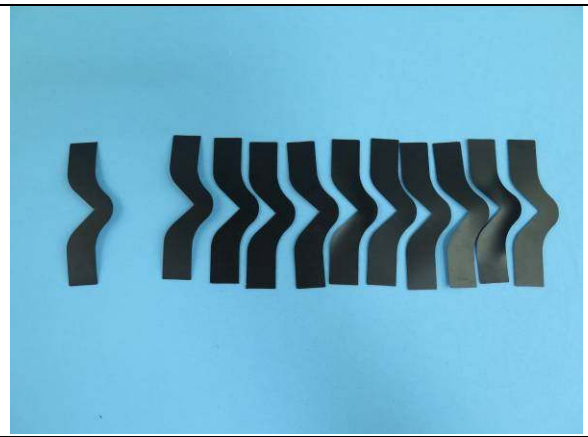
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Test Photo:

	
<p>During test</p>	<p>Reference sample Tested sample - Tensile Test (X direction)</p>
	
<p>Reference sample Tested sample - Tensile Test (Y direction)</p>	<p>Reference sample Tested sample - Tear Strength (X direction)</p>



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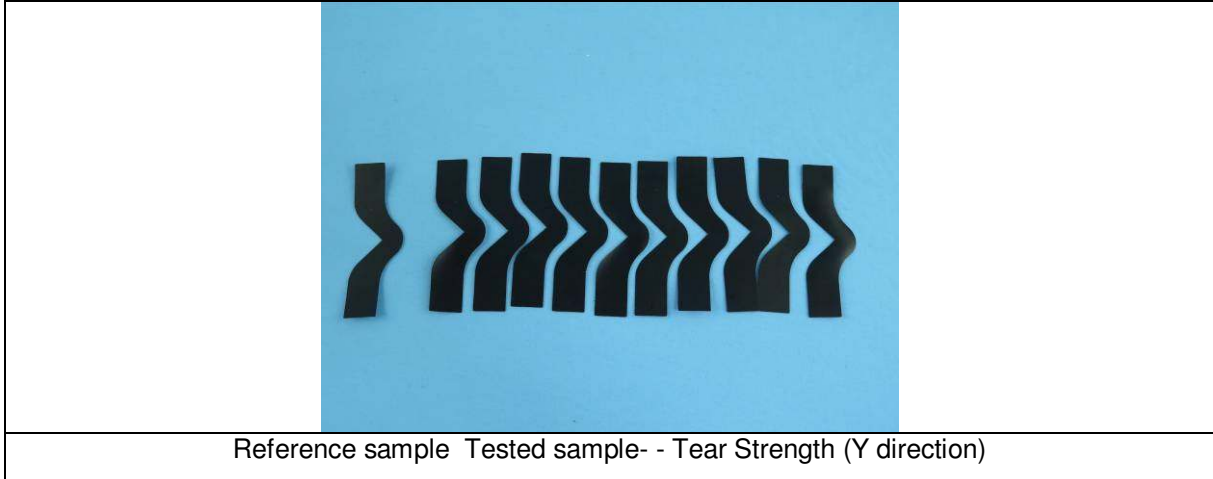
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Reference sample Tested sample- - Tear Strength (Y direction)

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
UV Accelerated Weathering Tester	QUV-Se	GZMR-AG-E057	2017-05-17	2018-05-16



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2. Test Item: Tear Strength

Sample Description: See photo

Test Method: ASTM D1004-13

Test Condition:

As received condition: (23±2)°C, (50±5)%RH, 48h

Light ageing condition: See test item 1→(23±2)°C, (50±5)%RH, 16h

Specimen thickness: 0.31mm

Testing speed: 51mm/min

Grip separation: 25.4mm

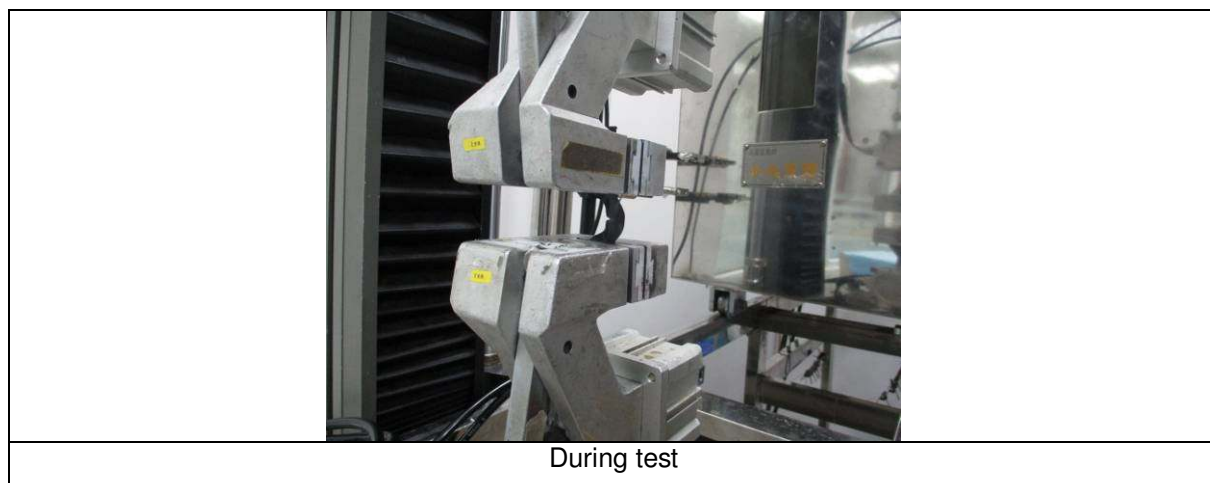
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result		
Tear Strength	As received	X direction	82.5N
		Y direction	88.2N
	After light ageing	X direction	76.6N
		Y direction	83.2N

Note: Test specimens were cut from the sample.

Test Photo:



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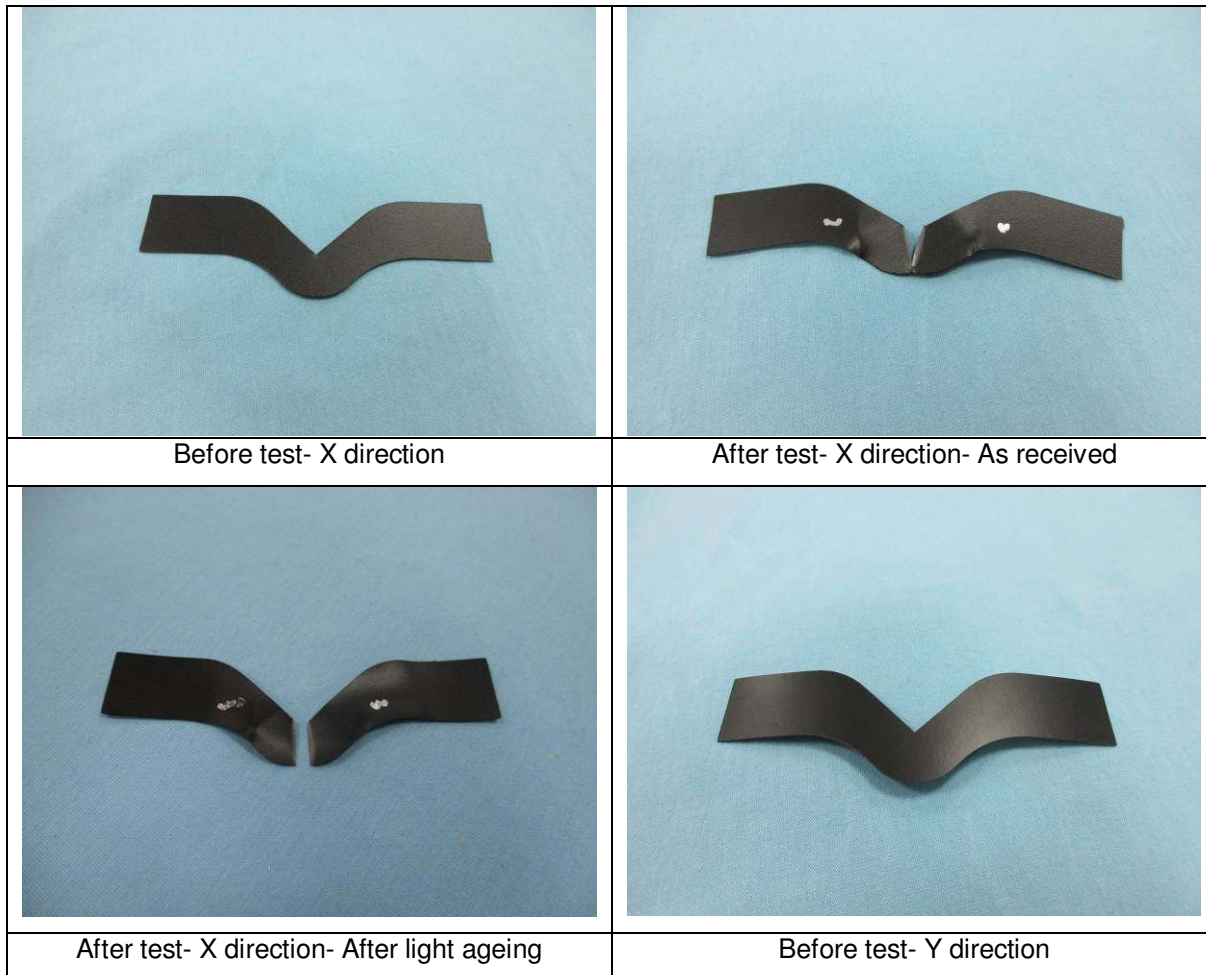
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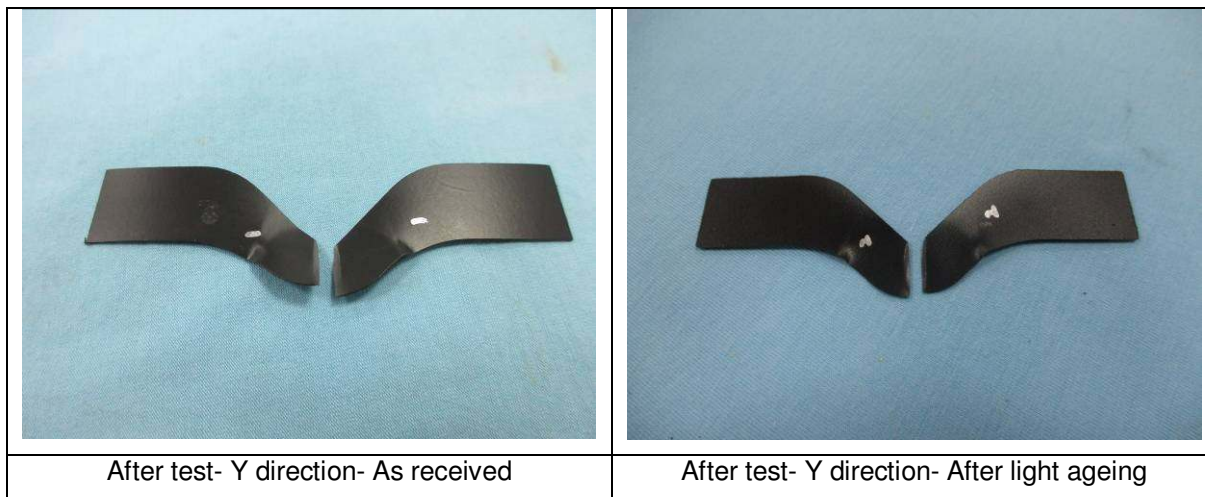
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	CMT6103	GZMR-PL-E022	2016-10-12	2017-10-11

3.Test Item: Tensile Test

Sample Description: See photo

Test Method: ASTM D882-12

Test Condition:

As received condition: (23±2)°C, (50±5)%RH, 48h

Light ageing condition: See test item 1→(23±2)°C, (50±5)%RH, 16h

Specimen width: 15 mm

Specimen thickness: 0.31mm

X direction - Testing speed: 500 mm/min

Grip separation: 50 mm

Y direction -Testing speed: 50 mm/min

Grip separation: 100 mm

Lab Environmental Condition: (23 ± 2) °C, (50 ± 5) % RH



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Test Result:

Test Item	Test Result		
Tensile Strength	As received	X direction	48.0MPa
		Y direction	43.2MPa
	After light ageing	X direction	57.0MPa
		Y direction	41.5MPa
Elongation at Break	As received	X direction	130 %
		Y direction	64% (See table 1)
	After light ageing	X direction	30%
		Y direction	47%

Table 1

Specimen	1	2	3	4	5	6	7	8	9	10
Elongation at Break, %	35.3	27.5	36.5	109	32.7	26.2	102	127	40.6	99.3

Note: Test specimens were cut from the sample.



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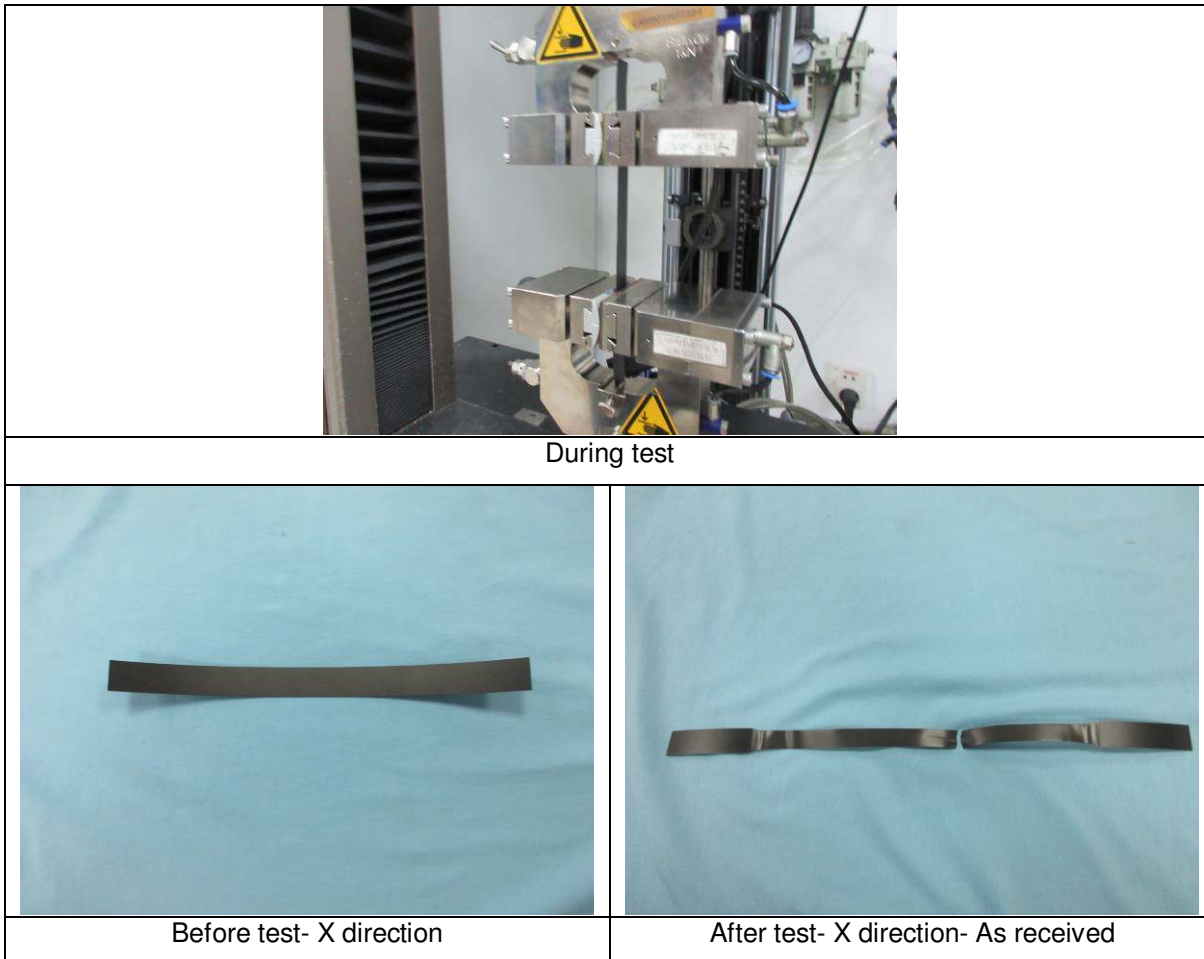
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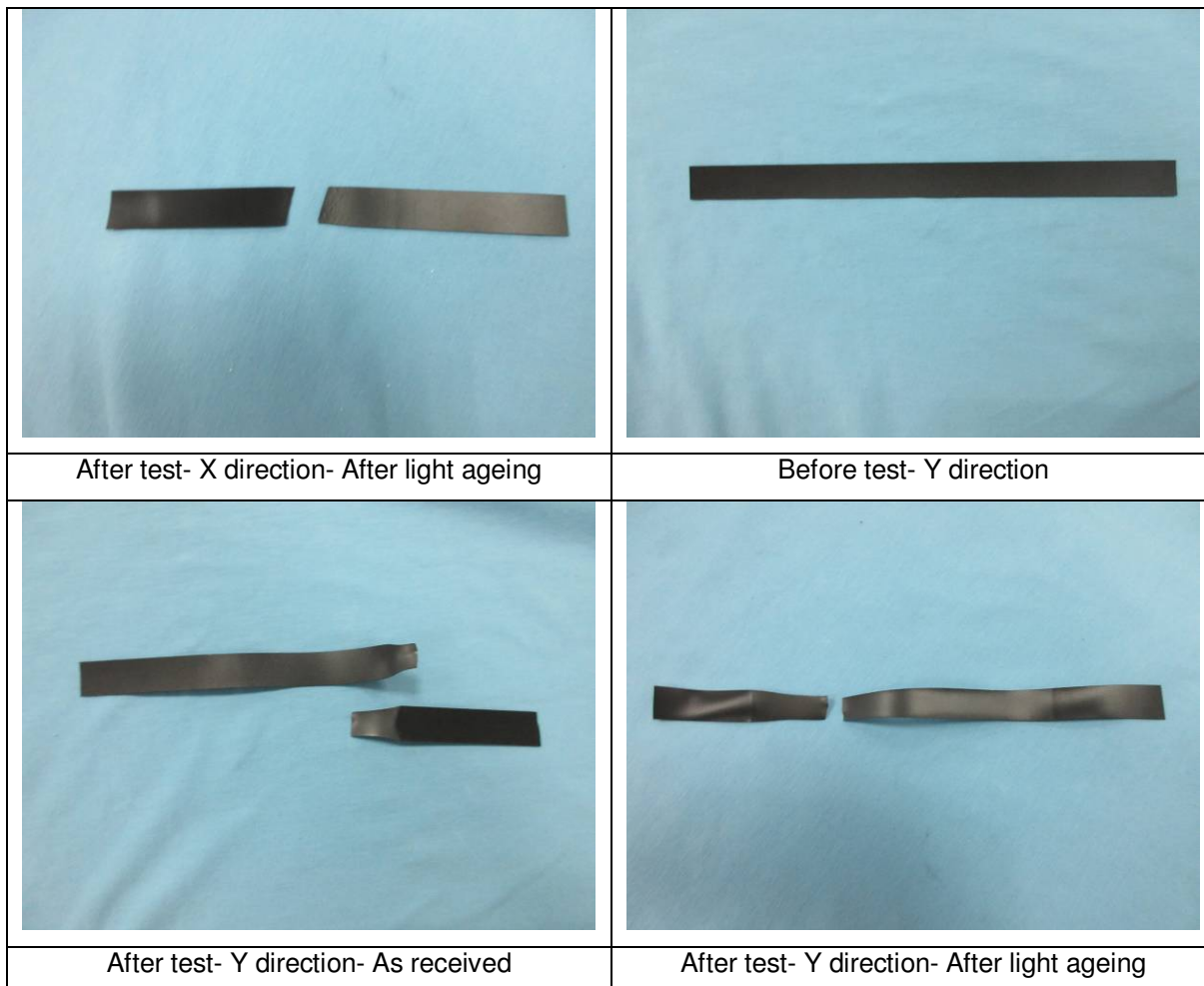


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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z010	GZMR-PL-E109	2016-10-12	2017-10-11

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