

TEST REPORT

No. : GZIN1807039986PS

Date : Jul 30, 2018

Page: 1 of 5

CUSTOMER NAME: GUANGDONG HANTAI DECORATION MATERIAL CO.,LTD
ADDRESS: NO.6, HENGLIANG RD, HECHENG, GAOMING, FOSHAN,
GUANGDONG.

Sample Name : MATT WOODGRAIN PVC FILM
Product Specification : 0.35MM X 1400MM
Manufacturer : HANTAI
Material and Mark : HTW15001-23

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. : GZIN1807040042MR
Date of Receipt : Apr 26, 2018
Testing Start Date : Apr 26, 2018
Testing End Date : May 09, 2018
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



Elean Fan
Authorized signatory



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

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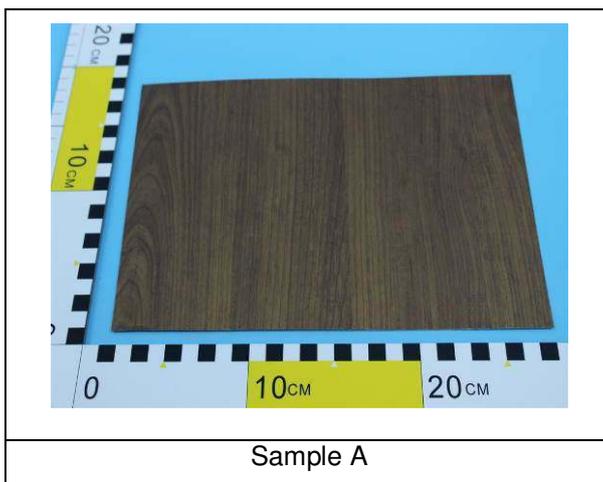
Page: 2 of 5

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Light Ageing Test-UV Exposure	ISO 4892-3:2016 Cycle1 & ISO 105-A02:1993/Cor.2:2005	See results	/

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

Original Sample Photo:



Sample A



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TEST REPORT

No. : GZIN1807039986PS

Date : Jul 30, 2018

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Test Item: Light Ageing Test-UV Exposure

Sample Description: See photo

Test Method: ISO 4892-3:2016 Cycle1 & ISO 105-A02:1993/Cor.2:2005

Test Condition:

Exposure cycle:

ISO 4892-3:2016 cycle 1

Lamp type: UVA-340

8h UV at (60±3)°C BPT, 0.76W/(m²·nm)@340nm

4h condensation at (50±3)°C BPT

Exposure duration: 200h

Test Result:

Sample	Exposure duration	Grey scale
A	120h	4-5
	200h	4-5

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.



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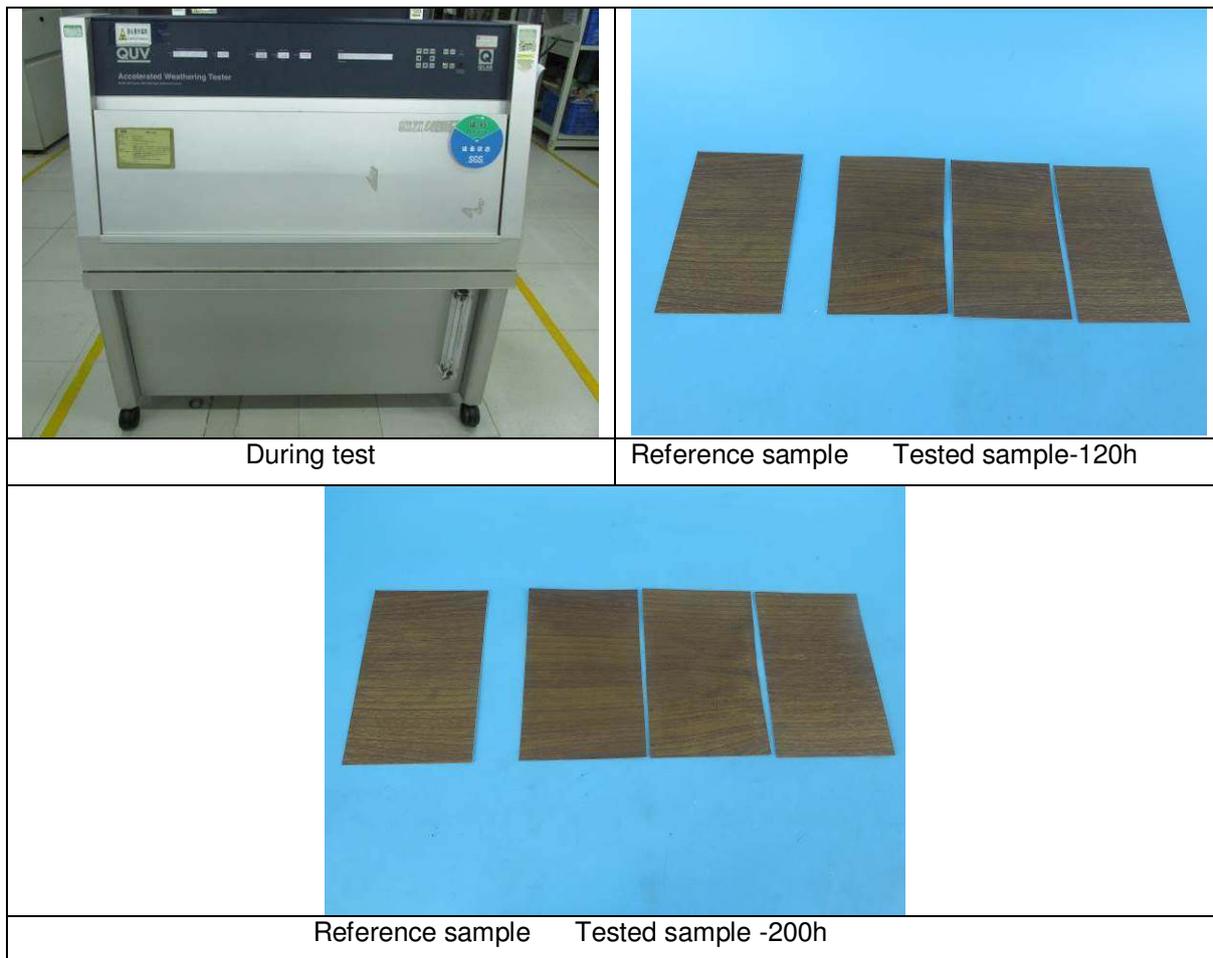
TEST REPORT

No. : GZIN1807039986PS

Date : Jul 30, 2018

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Test Photo:



SGS-CSTC (Shanghai) Technical Services Co., Ltd.
Guangzhou Branch Testing Center Materials Laboratory

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No. : GZIN1807039986PS

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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
UV Accelerated Weathering Tester	QUV-Se	GZMR-AG-E188	2018-04-17	2019-04-16
Colour Assessment Cabinet	CAC60	GZMR-AG-E003	2017-07-04	2018-07-03

Appendix information:

This test report is the English version of test report No. GZIN1807039986PS_CN.

***** End of report*****



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Test Report

No. CANML1807785304

Date: 31 Jul 2018

Page 1 of 6

GUANGDONG HANTAI DECORATION MATERIAL CO., LTD
NO.6 HENGLIANG RD, HECHENG STREET, GAOMING, FOSHAN, GUANGDONG

The following sample(s) was/were submitted and identified on behalf of the clients as :
MATT WOODGRAIN PVC FILM

SGS Job No. : GZIN1807040135PC - GZ
Internal Reference No. : GZIN1807039972SC
Client Ref. Info. : HTW 15001-23
Manufacturer : HANTAI
Date of Sample Received : 26 Apr 2018
Testing Period : 26 Apr 2018 - 03 May 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jenny Jiang

Jenny Jiang
Approved Signatory



Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-077853.001	Beige sheet w/ brown/dk-brown surface

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017 , IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

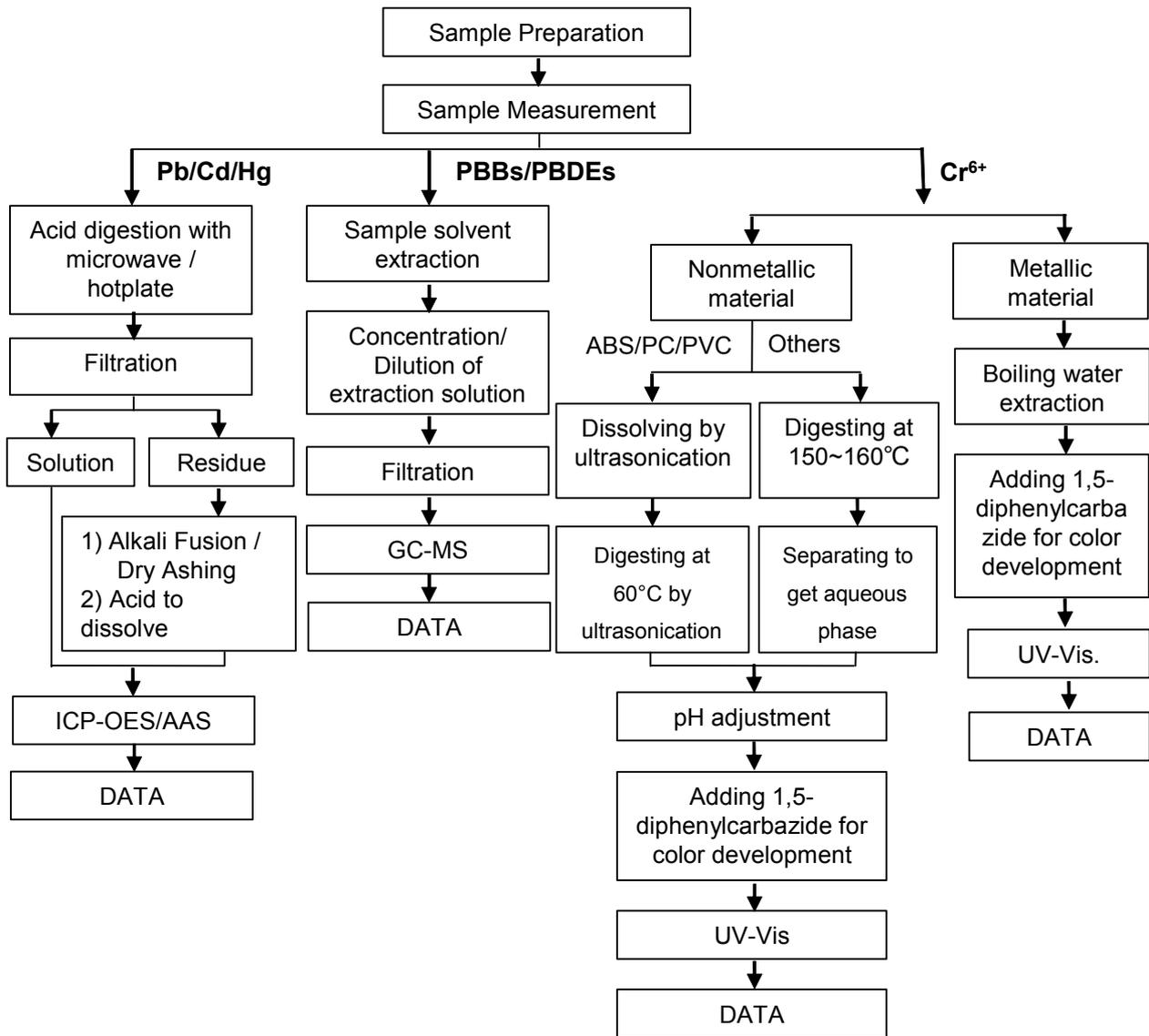
- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25



ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

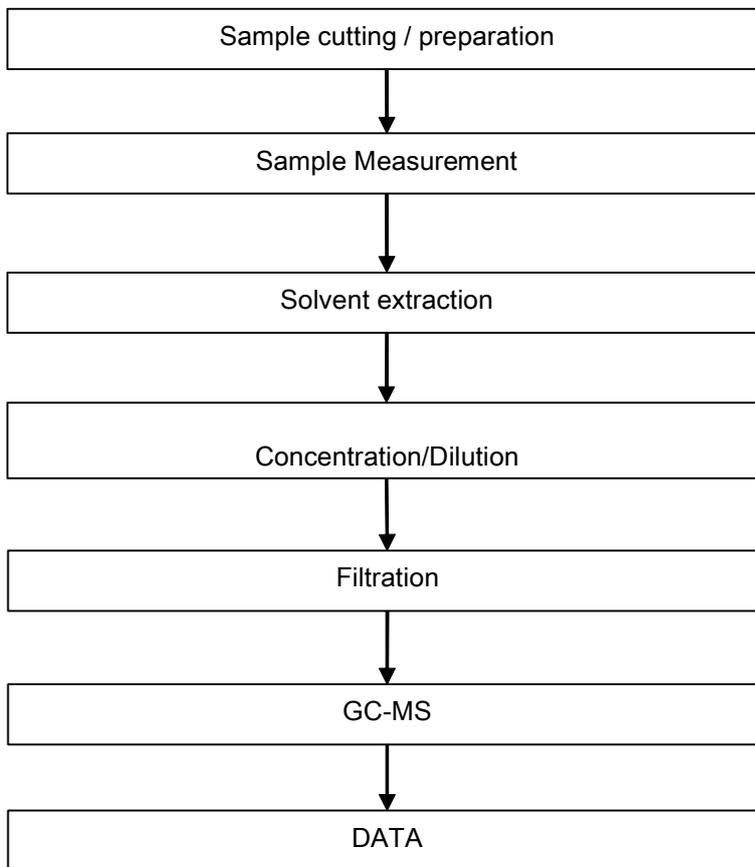
- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

TEST REPORT

No. : GZIN1507031444PS

Date : Jul 31, 2015

Page: 1 of 3

CUSTOMER NAME: FOSHAN NANHAI HANTAI DECORATION MATERIAL FACTORY
ADDRESS: NO.3,DAJIWEI INDUSTRIAL ZONE, HEXI, YANBU, NANHAI, FOSHAN,
GUANGDONG, CHINA.

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : SUPER MATT PVC FILM
SGS Ref. No. : GZIN1507031491MR
Product Specification : 0.35MMX1400MM
Manufacturer : FOSHAN NANHAI HANTAI DECORATION MATERIAL FACTORY
Material and Mark : HTC1481B-MA
Date of Receipt : Jul 27, 2015
Testing Start Date : Jul 27, 2015
Testing End Date : Jul 31, 2015
Test result(s) : For further details, please refer to the following page(s)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. GZ Branch Testing
Center



Eleain Fan
Authorized signatory



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TEST REPORT

No. : GZIN1507031444PS

Date : Jul 31, 2015

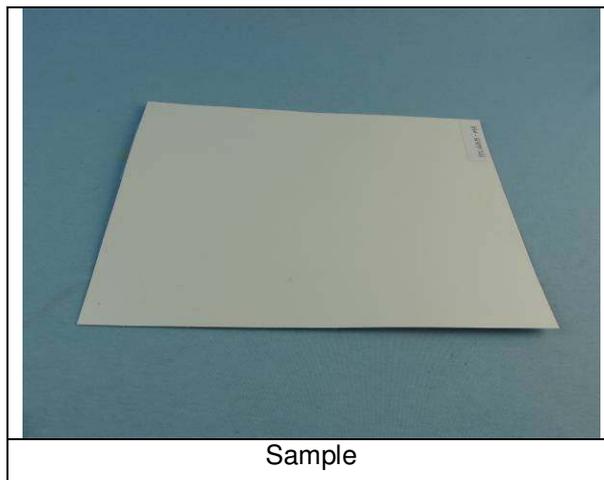
Page: 2 of 3

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Resistance to Staining	EN 438-2:2005 Section 26 and client's requirement	Rating: 5	/

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

Original Sample Photo:



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TEST REPORT

No. : GZIN1507031444PS

Date : Jul 31, 2015

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Test Item: Resistance to Staining

Sample Description: Plastic part

Test Method: EN 438-2:2005 Section 26 and client's requirement

Test Condition:

Arawana[®] Peanut Oil, Spot method (cover), 80°C, 16h

Test Result:

Sample	Test Result (See note)
1	Rating: 5

Note: According to EN 438-2:2005 Section 26, the rating of stain is expressed as following:

Rating 5: No visible change.

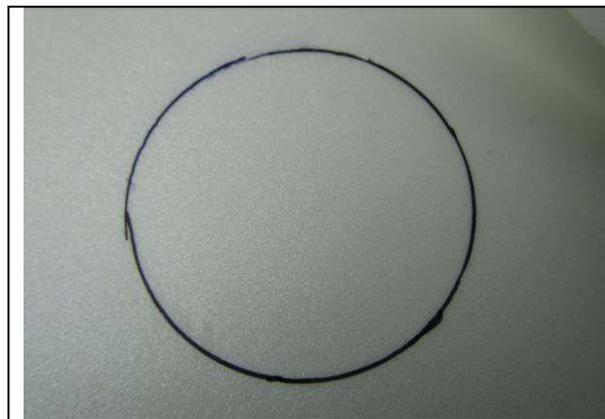
Rating 4: Slight change of gloss and/or colour, only visible at certain viewing angles.

Rating 3: Moderate change of gloss and/or colour.

Rating 2: Marked change of gloss and/or colour.

Rating 1: Surface distortion and/or blistering.

Test Photo:



Resistance to Staining

***** End of report*****



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Test Report

No. CANML1807785306

Date: 31 Jul 2018

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GUANGDONG HANTAI DECORATION MATERIAL CO., LTD
NO.6 HENGLIANG RD, HECHENG STREET, GAOMING, FOSHAN, GUANGDONG

The following sample(s) was/were submitted and identified on behalf of the clients as :
MATT WOODGRAIN PVC FILM

SGS Job No. : GZIN1807040135PC - GZ
Internal Reference No. : GZIN1807039972SC
Client Ref. Info. : HTW 15001-23
Manufacturer : HANTAI
Date of Sample Received : 26 Apr 2018
Testing Period : 26 Apr 2018 - 03 May 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jenny Jiang

Jenny Jiang
Approved Signatory



Test Report

No. CANML1807785306

Date: 31 Jul 2018

Page 2 of 5

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-077853.001	Beige sheet w/ brown/dk-brown surface

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND

Notes :

- (1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
 - i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
 - ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.
 Please refer to Regulation (EC) No 552/2009 to get more detail information
- (2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex



XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

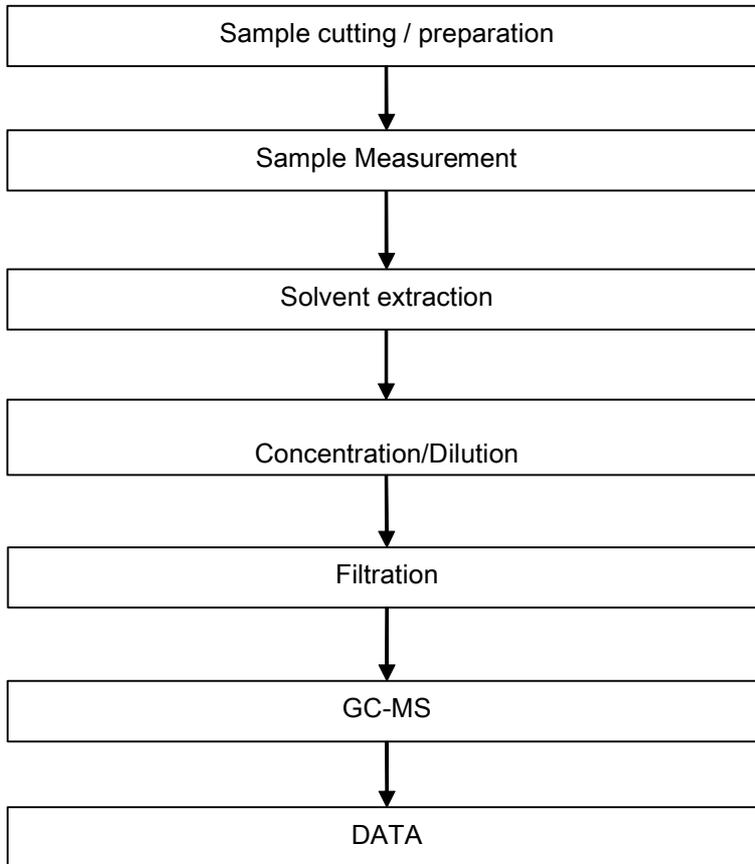
Please refer to Regulation (EC) No 552/2009 to get more detail information



ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



TEST REPORT

No. : GZIN1807039985PS

Date : Jul 30, 2018

Page: 1 of 5

CUSTOMER NAME: GUANGDONG HANTAI DECORATION MATERIAL CO.,LTD
ADDRESS: NO.6, HENGLIANG RD, HECHENG, GAOMING, FOSHAN,
GUANGDONG.

Sample Name : MATT SOLID COLOR PVC FILM
Product Specification : 0.35MM X 1400MM
Manufacturer : HANTAI
Material and Mark : HT4828-01-2

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. : GZIN1807040040MR
Date of Receipt : Apr 26, 2018
Testing Start Date : Apr 26, 2018
Testing End Date : May 09, 2018
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



Elean Fan
Authorized signatory



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

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TEST REPORT

No. : GZIN1807039985PS

Date : Jul 30, 2018

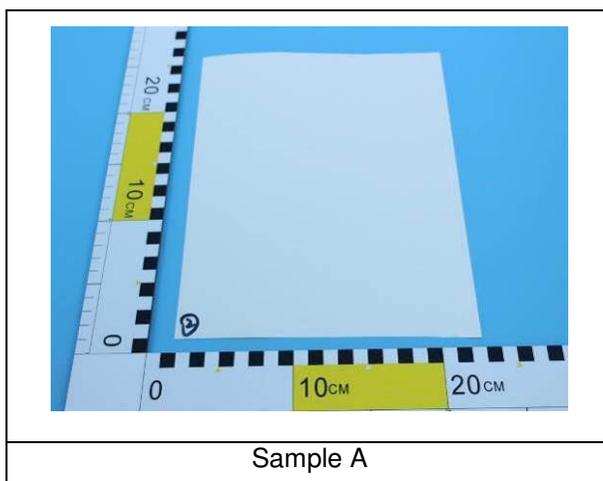
Page: 2 of 5

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Light Ageing Test-UV Exposure	ISO 4892-3:2016 Cycle1 & ISO 105-A02:1993/Cor.2:2005	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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TEST REPORT

No. : GZIN1807039985PS

Date : Jul 30, 2018

Page: 3 of 5

Test Item: Light Ageing Test-UV Exposure

Sample Description: See photo

Test Method: ISO 4892-3:2016 Cycle1 & ISO 105-A02:1993/Cor.2:2005

Test Condition:

Exposure cycle:

ISO 4892-3:2016 cycle 1

Lamp type: UVA-340

8h UV at (60±3)°C BPT, 0.76W/(m²·nm)@340nm

4h condensation at (50±3)°C BPT

Exposure duration: 200h

Test Result:

Sample	Exposure duration	Grey scale
A	120h	4
	200h	3-4

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.



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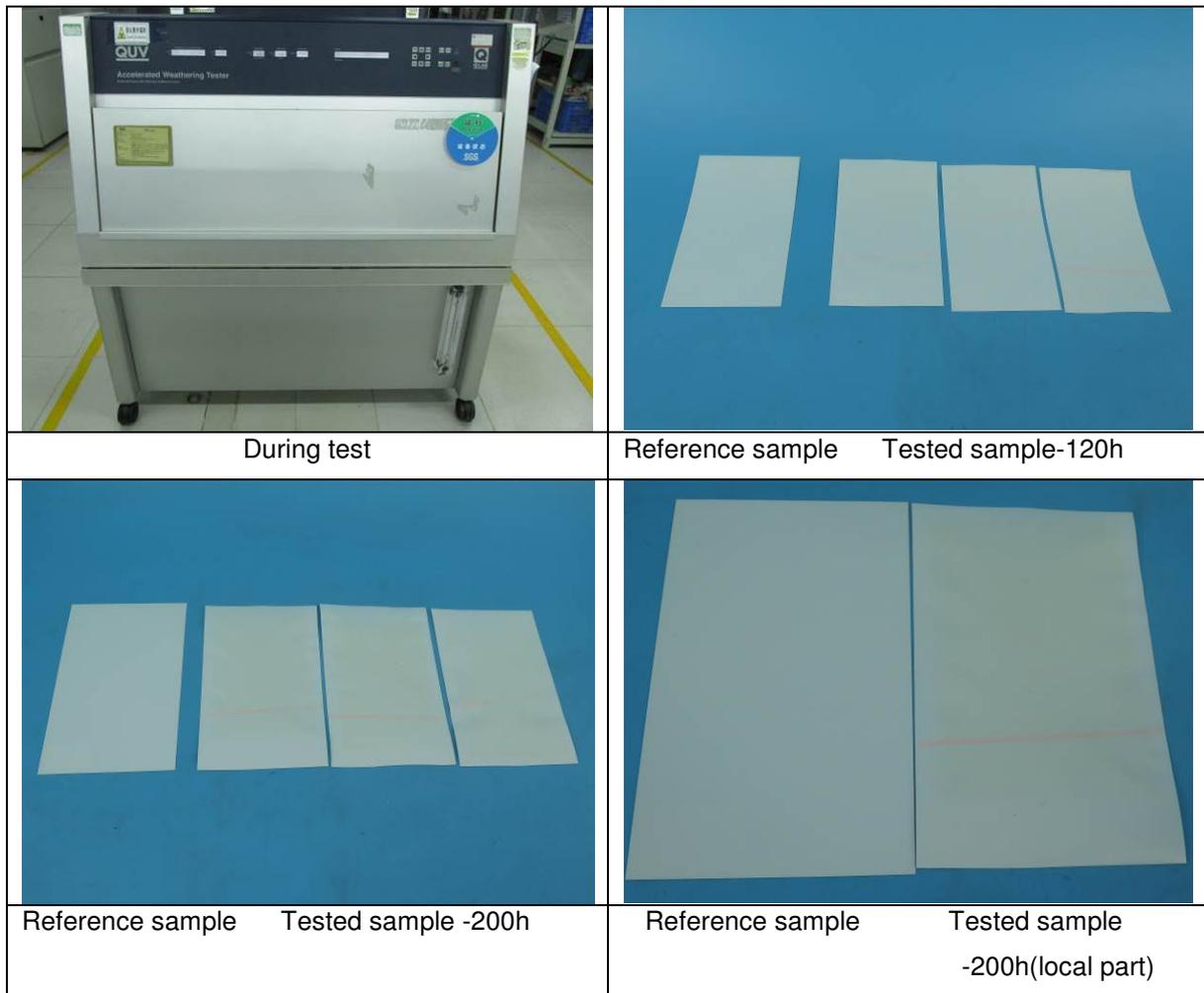
TEST REPORT

No. : GZIN1807039985PS

Date : Jul 30, 2018

Page: 4 of 5

Test Photo:



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TEST REPORT

No. : GZIN1807039985PS

Date : Jul 30, 2018

Page: 5 of 5

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
UV Accelerated Weathering Tester	QUV-Se	GZMR-AG-E188	2018-04-17	2019-04-16
Colour Assessment Cabinet	CAC60	GZMR-AG-E003	2017-07-04	2018-07-03

Appendix information:

This test report is the English version of test report No. GZIN1804020400PS_CN.

***** End of report*****



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TEST REPORT

No. : GZIN1807039984PS

Date : Jul 30, 2018

Page: 1 of 5

CUSTOMER NAME: GUANGDONG HANTAI DECORATION MATERIAL CO.,LTD
ADDRESS: NO.6, HENGLIANG RD, HECHENG, GAOMING, FOSHAN,
GUANGDONG.

Sample Name : HIGH GLOSS SOLID COLOR PVC FILM
Product Specification : 0.40MM X 1400MM
Manufacturer : HANTAI
Material and Mark : HT4850

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. : GZIN1807040039MR
Date of Receipt : Apr 26, 2018
Testing Start Date : Apr 26, 2018
Testing End Date : May 09, 2018
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



Elean Fan
Authorized signatory



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

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TEST REPORT

No. : GZIN1807039984PS

Date : Jul 30, 2018

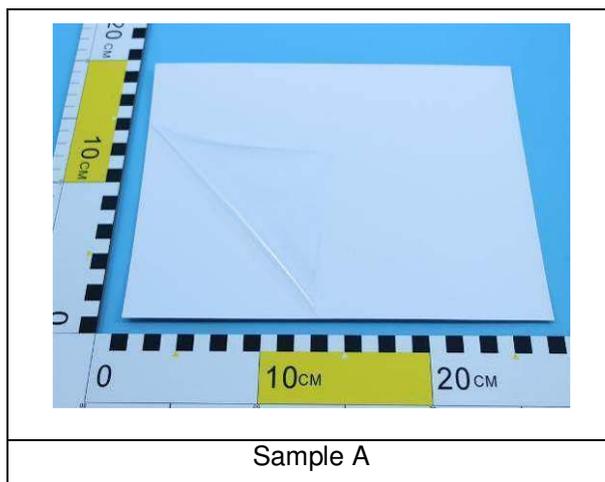
Page: 2 of 5

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Light Ageing Test-UV Exposure	ISO 4892-3:2016 Cycle1 & ISO 105-A02:1993/Cor.2:2005	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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TEST REPORT

No. : GZIN1807039984PS

Date : Jul 30, 2018

Page: 3 of 5

Test Item: Light Ageing Test-UV Exposure

Sample Description: See photo

Test Method: ISO 4892-3:2016 Cycle1 & ISO 105-A02:1993/Cor.2:2005

Test Condition:

Exposure cycle:

ISO 4892-3:2016 cycle 1

Lamp type: UVA-340

8h UV at (60±3)°C BPT, 0.76W/(m²·nm)@340nm

4h condensation at (50±3)°C BPT

Exposure duration: 200h

Test Result:

Sample	Exposure duration	Grey scale
A	120h	3-4
	200h	3-4

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.
3. The protected film was ripped off before test.



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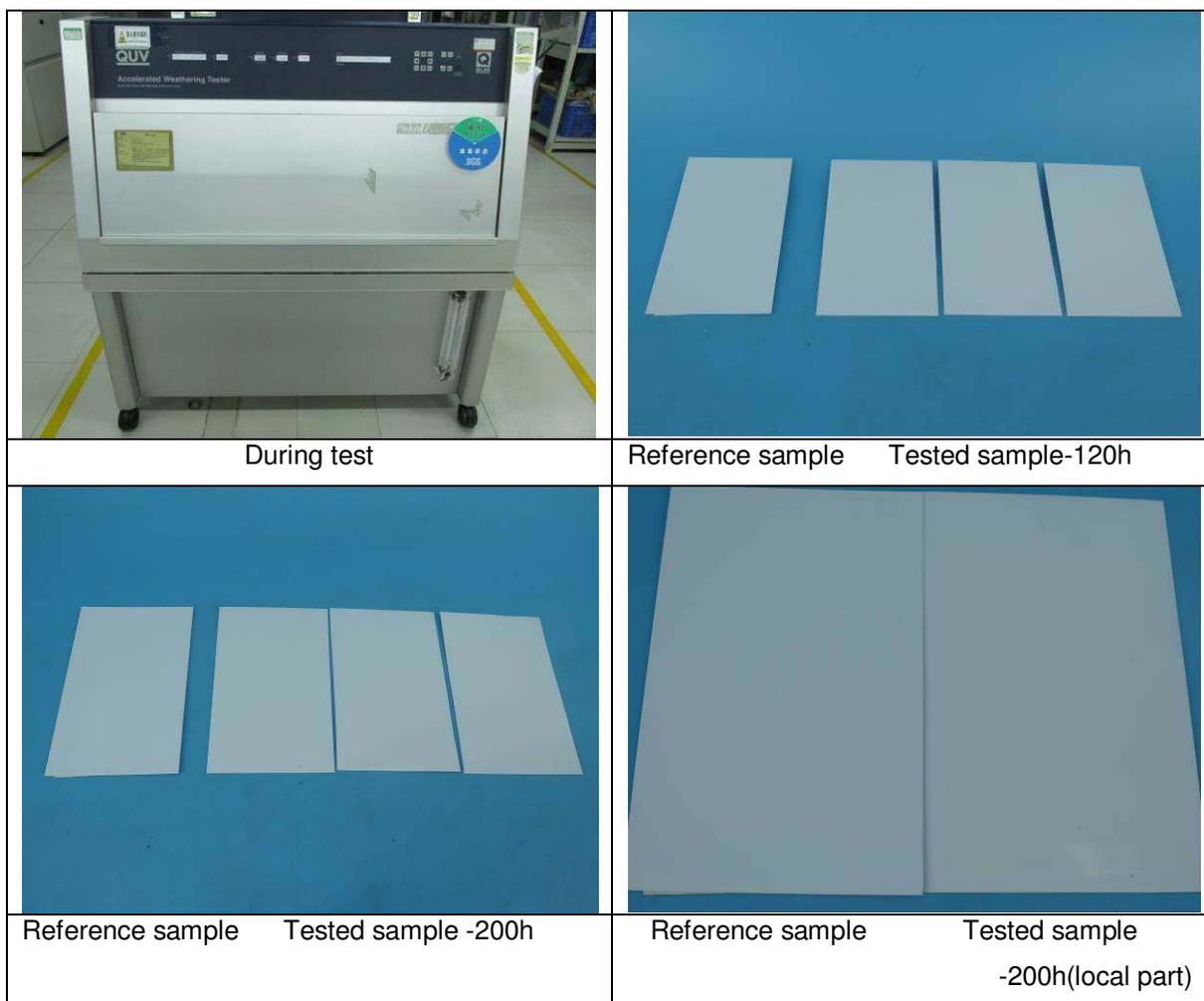
TEST REPORT

No. : GZIN1807039984PS

Date : Jul 30, 2018

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Test Photo:



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TEST REPORT

No. : GZIN1807039984PS

Date : Jul 30, 2018

Page: 5 of 5

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
UV Accelerated Weathering Tester	QUV-Se	GZMR-AG-E188	2018-04-17	2019-04-16
Colour Assessment Cabinet	CAC60	GZMR-AG-E003	2017-07-04	2018-07-03

Appendix information:

This test report is the English version of test report No. GZIN1804020396PS_CN.

***** End of report*****



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TEST REPORT

No. : GZMR120408374

Date : May. 04, 2012

Page: 1 of 3

FOSHAN NANHAI HANTAI DECORATION MATERIAL FACTORY
HEXI DAJIWEI INDUSTRIAL AREA NO3, YANBU FOSHAN, GUANGDONG CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : PVC FILM
Style / Item No. : HT4850
Manufacturer : FOSHAN NANHAI HANTAI DECORATION MATERIAL FACTORY
SGS Ref No. : GZRL2012040767
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Apr. 24, 2012
Test Period : Apr. 24, 2012 to May. 03, 2012

Test result(s) : Please refer to the following page(s)

*****To be continued*****

Signed for and on behalf of
SGS-CSTC Ltd.

May Huo
Engineer

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GZMR

TEST REPORT

No. : GZMR120408374

Date : May. 04, 2012

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Test Information:

Sample description: Plastic sheet

Test result:

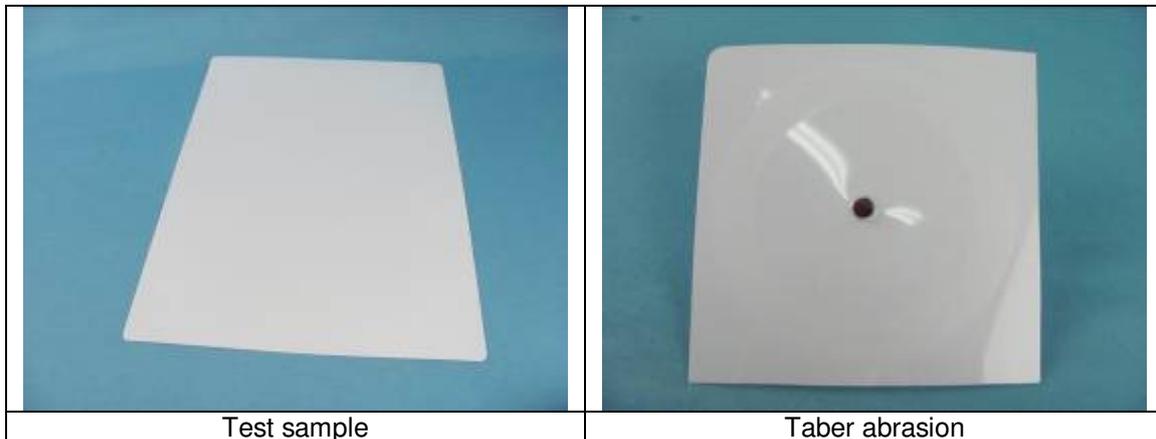
No.	Test item	Test method	Test condition	Test result
1	Taber abrasion	Supplied by client	Wheel: CS-10 Load: 1000g/wheel (total 2000g) Cycles: 100	Visible abrasive trace
2	Shore hardness	With reference to ASTM D2240-05(2010)	Specimen thickness: 6.46mm (16 layers plied up)	D/76/1 (see note 1)

Note:1. D/76/1- "D": type of durometer, "76": hardness value, "1": read time(s), the result was for reference only.

2.The protected film was ripped off before test.

3.Test specimens of test item 2 were cut from the sample.

Photo:



*****To be continued*****

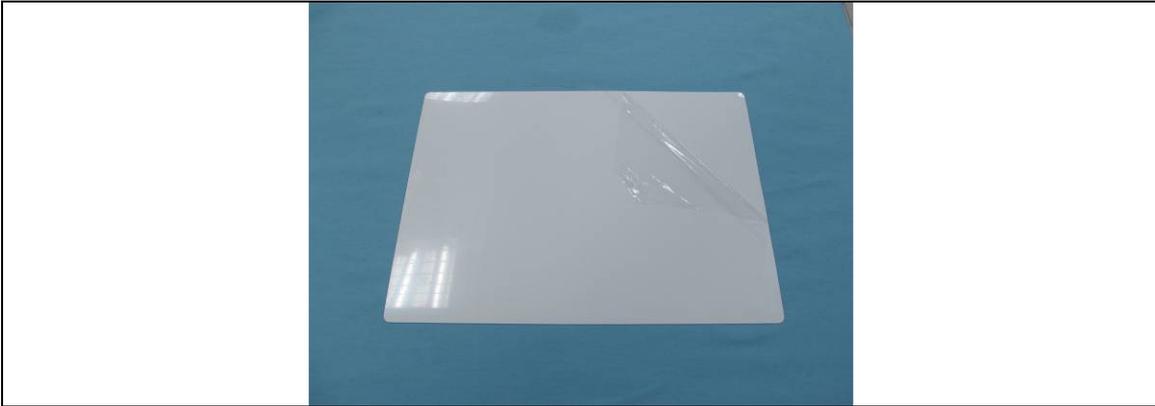
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Sample for test item 2

*****End of report*****

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