



No.: SHIN190100272CCM

Date: Feb. 15, 2019

Page: 1 of 3

CUSTOMER NAME: CHANGZHOU SUN PLUS LAMINATE CO., LTD.

ADDRESS: WEIXING INDUSTRY AREA, CUIQIAO, HENGLIN TOWN,

CHANGZHOU, JIANGSU, 213103, P. R. CHINA

Sample Name : HIGH PRESSURE LAMINATE

Style No. : 0.8mm Supplier : Sun Plus

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.

\*\*\*\*\*

Test Required : Density

Test Method : EN 438-3:2016 & EN ISO 1183-1:2012

SGS Ref. No. : CZHL1901000033OT

Date of Receipt : Jan. 23, 2019
Testing Start Date : Jan. 23, 2019
Testing End Date : Feb. 15, 2019

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 (Shanghai) Co., Ltd.



Authorized signatory







No.: SHIN190100272CCM

Date: Feb. 15, 2019

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### Summary of Result(s):

No.	Test Item	Test Method	Result	Conclusion
1	Density	EN 438-3:2016 & EN ISO 1183-1:2012	1.459 g/cm <sup>3</sup>	/

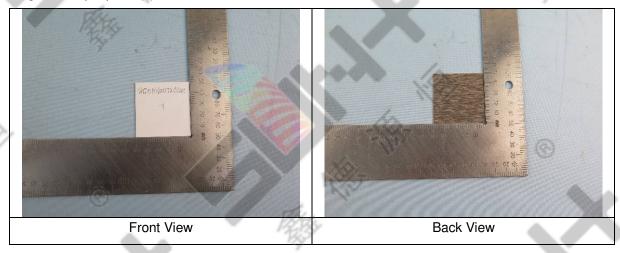
Note:

Pass: Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.

### Original sample photo(s):





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Test item: Density

Test method: EN 438-3:2016 & EN ISO 1183-1:2012

Test condition:

Specimen: 50mm×50mm×0.8mm, 3 pcs

Water temperature: 17°C

Lab environmental condition: 23±2°C, 50±5%RH

#### Test result:

Test Item	7	Test	Result	RES
Tool Hom		Individual value		Average value
Density (g/cm <sup>3</sup> )	1.467	1.458	1.452	1.459

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

In the territory of the People's Republic of China, the test report without CMA logo expresses the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc...and just for client internal reference.



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**Test Report** No. SDHL1902002254HI Date: Mar.01, 2019 Page 1 of 4

CHANGZHOU SUN PLUS LAMINATE CO.,LTD WEIXING INDUSTRY AREA, CUIQIAO, HENGLIN TOWN, CHANGZHOU, JIANGSU, 213103, P.R.CHINA

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

: HIGH PRESSURE LAMINATE Sample Description

SGS Ref No. : CZHL1901000033OT

Style No. : 0.8MM

: SUN PLUS Supplier

: Jan.28, 2019 Sample Receiving Date

: Feb.18, 2019 to Mar.01, 2019 Test Performing Date

#### **Test Result Summary**

No.	Test item	Test(s) Requested(Method)	Result(s)	Comments
1	Resistance to immersion in boiling water	EN 438-7:2005 Clause 4.13.1 & EN 438-2:2005 Clause 12	Refer to next page(s)	/
2	Resistance to wet conditions	EN 438-7:200 <mark>5 Cla</mark> use 4.13.2 & EN 438-2: <mark>2005 Cla</mark> use 15	Refer to next page(s)	/
3	Density	EN 438-7:2005 Clause 4.13.1 & EN 438-7:2005 Clause 4.13.2 & EN ISO 1183-1:2004 Method A	Pass	® /
For fur	rther details, please refer	to the following page(s)		

Signed for and on behalf of Shunde Branch SGS-CSTC Co., Ltd.

Peter Zhao

Approved signatory





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No. SDHL1902002254HI

Date: Mar.01, 2019

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**Test Information:** 

Sample description: See photo

1. Test item: Resistance to immersion in boiling water

Test method: EN 438-7:2005 Clause 4.13.1 & EN 438-2:2005 Clause 12

Test conditions:

Place the specimens in the vessel of boiling distilled water. After (120 ± 5) min, remove the specimens from the boiling water and allow to cool for (15  $\pm$  5) min in the vessel of distilled water maintained at (23  $\pm$  2) °C

Test environment:  $(23\pm2)^{\circ}$ C,  $(50\pm5)^{\circ}$ RH

#### Test results:

Sample	- 111-	Test results	Conclusion	
	Quality	<b>⑥</b> 6.	59%	71
	Thickness	7.28%		Bay I
А	Appearance	Gloss finish	Rating 5	/
	Appearance	Other finishes	Rating 5	/

Note: In EN 438-2:2005 Clause 12.5, Rating 5 is the best and Rating 1 is the worst.



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Date: Mar.01, 2019

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2. Test item: Resistance to wet conditions

Test method: EN 438-7:2005 Clause 4.13.2 & EN 438-2:2005 Clause 15

Test conditions:

Place the specimens are totally immersed in water at (65 ± 2) °C. After 48 h, remove the specimens from the water. bath and immerse for  $(15 \pm 5)$  min in the vessel containing distilled water at  $(23 \pm 2)$  °C.

Test environment: (23±2) °C, (50±5)%RH

#### Test results:

Sample	Tes	Conclusion	
A	Quality	7.33%	
	Appearance	Rating 5	Bisen /

Note: In EN 438-6:2005 Clause 15.5, Rating 5 is the best and Rating 1 is the worst.

3. Test item: Density

Test method: EN 438-7:2005 Clause 4.13.1 & EN 438-7:2005 Clause 4.13.2 & EN ISO 1183-1:2004 Method A

Test conditions:

Immersion method

Test environment: (23±2)°C, (50±5)%RH

#### Test results:

Sample	Density	Requirement of standard EN 438-4:2005 Table 3(CGS)	Requirement of standard EN 438-6:2005 Table 3(EGS)	Conclusion
А	1.39 g/cm <sup>3</sup>	≥1.35	g/cm <sup>3</sup>	Pass



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Date: Mar.01, 2019

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#### **Photo Appendix:**



\*\*\*End of Report\*\*\*



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CHANGZHOU SUN PLUS LAMINATE CO., LTD
WEIXING INDUSTRY AREA, CUIQIAO, HENGLIN TOWN, CHANGZHOU, JIANGSU, 213103,
P.R.CHINA

Sample Description : HIGH PRESSURE LAMINATE

SGS Ref. No. : CZHL1901000033OT

Style No. : 0.8MM

Supplier : SUN PLUS

Sample Receiving Date : JAN. 23, 2019

Testing Period : JAN. 23, 2019 TO FEB. 25, 2019

Testing Location : 3RD BUILDING, LANE 3999, XIUPU ROAD, PUDONG

NEW AREA, SHANGHAI

Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT

Test Requested : 1. RESISTANCE TO SURFACE WEAR (EN 438-2:2016

CLAUSE 10)

2. RESISTANCE TO WATER VAPOUR(EN 438-2:2016 CLAUSE 14)

3. RESISTANCE TO DRY HEAT (EN 438-2:2016 CLAUSE 16)

- 4. RESISTANCE TO IMPACT BY LARGE DIAMETER BALL (EN 438-2:2016 CLAUSE 21)
- 5. RESISTANCE TO CRACKING UNDER STRESS

  (LAMINATES ≦ 2MM THICK) (EN 438-2:2016 CLAUSE
  23)
- 6. RESISTANCE TO SCRATCHING (EN 438-2:2016 CLAUSE 25)
- 7. RESISTANCE TO STAINING (EN 438-2:2016 CLAUSE 26)
- 8. RESISTANCE TO CIGARETTE BURNS (EN 438-2:2005 CLAUSE 30)



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f (86–21) 6115 6899 f (86–21) 6115 6899



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Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE

FOLLOWING PAGE(S)

Conclusion : THE TEST DATA WERE PROVIDED TO CLIENT FOR

THEIR OWN ANALYSIS.

\*\*\*\*\*\*

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Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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### **Test Conducted:**

- 1. Resistance to surface wear (EN 438-2:2016 clause 10)
- 2. Resistance to water vapour(EN 438-2:2016 clause 14)
- 3. Resistance to dry heat (EN 438-2:2016 clause 16)
- 4. Resistance to impact by large diameter ball (EN 438-2:2016 clause 21)
- 5. Resistance to cracking under stress (laminates ≤ 2mm thick) (EN 438-2:2016 clause 23)
- 6. Resistance to scratching (EN 438-2:2016 clause 25)
- 7. Resistance to staining (EN 438-2:2016 clause 26)

Test property	Test Procedure/Requirement	Rating/Result
Resistance to surface wear	Perform the test immediately after removal of the specimen and calibrated abrasive paper from the preconditioning atmosphere.  Prepare two wheels with preconditioned unused abrasive paper from the same batch previously approved by calibration. Fit the wheels to the machine and set the revolution counter to zero.  Clamp the specimen in the holder, ensuring that the surface of the specimen is flat. Lower the abrasive wheels on to the specimen, start the suction device and begin abrading the specimen.  Replace the abrasive paper after 500 revolutions.  At the beginning of the test, examine the specimen for wear after each 25 revolutions. Continue the test until the initial wear point (IP) is reached.  The initial wear point (IP) is that point at which the first clearly recognisable wear-through of the print, pattern or plain colour appears and the sub-layer becomes visible in three quadrants. The initial wear point is reached when there are areas of at least 0,60 mm2 wear-through in two quadrants  Record the IP as the number of revolutions, Repeat the test immediately using the two remaining test specimens.	IP: 650 revolutions
Resistance to water vapour	Place approximately 200 ml of water in the flask and bring it to the boil on the electric hotplate. Place the heat screen in position around the neck of the flask. Place the specimen, decorative face down, centrally over the mouth of the flask and fix it in position with the wire specimen holder.  The specimen holder shall be heavy enough to prevent the specimen from curling away from the mouth of the flask.  After the decorative face has been exposed for 1 h to the vapour from the boiling water, remove the specimen and use the filter paper or tissue to remove excess water from the surface of the specimen.  Allow the specimen to recover for 24 h in normal ambient conditions and then examine the central area of the specimen	Rating 5



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Test property	Test Procedure/Requirement	Rating/Result
	with the naked eye, corrected if necessary, for any change in appearance. The circular area where the specimen is direct contact with the flask neck shall be excluded from the judgement.  The result of the examination for change in appearance shall be expressed in accordance with the following rating scale: 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: Blistering and/or delamination.  The test surface shall be placed horizontally. In case of	
Resistance to dry heat	laminates thick 2 mm or greater, without need of gluing on chipboard, if thickness of sample less than 2mm, bonding the specimen to the backboard as specified requirement. The test surface shall be lightly wiped with a cleaning cloth before the test.  Using the oven, raise the temperature of the heat source to a temperature higher than the specified test temperature. Place the thermometer or other means of measuring temperature in the centre bore of the heat source. If the temperature is not higher than the specified test temperature, the heat source shall be placed again in the oven until achieving this higher temperature.  When the heat source reaches the temperature of 160 °C wit an accuracy of ± 1 °C, immediately place it on the test surface. After 20 min in this position, remove the block. Allow the test surface to stand undisturbed 1 h + 10 min. Clean the test surface with the cleaning cloth and examine the tested area. Carefully examine the test surface, with light coming from all directions, for damage, e.g. discoloration, change in gloss and colour, blistering, swelling and other defects. Viewing distance shallbe 0,25 m to 1,0 m. The result of the examination for surface disturbance shall be expressed in accordance with the rating scale reported in below table.	h e. Rating 5
	Rating Description scale  5 No change test area indistinguishable from adjacent	
FÖSTEL.	surrounding area  4 Minor change test area distinguishable from adjacent surrounding area, only when the light source is	S. S. S. S.



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**Test Report** No.: SHHL1901004220BM Date: FEB. 25, 2019 Page: 5 of 11

Test property	Test Procedure/Requirement	Rating/Result
	mirrored on the test surface and is reflected towards the observer's eye, e. g. discoloration, change in gloss and colour  3 Moderate change test area distinguishable from adjacent surrounding area, visible in several viewing directions, e. g. discoloration, change in gloss and colour, no change in the surface structure, e.g. deformation, cracking, blistering  2 Significant change test area clearly distinguishable from adjacent surrounding area, visible in all viewing directions, e. g. discoloration, change in gloss and colour, and / or structure of the surface slightly changed, e.g. slight cracking, slight blistering  1 Strong change the structure of the surface being distinctly changed e.g. strong cracking, strong blistering and /or discoloration, change in gloss and colour, and / or the surface material being totally or partially delaminated	
Resistance to impact by large diameter ball	<ol> <li>The test shall be carried out in the laboratory atmosphere.</li> <li>Clamp the specimen in the clamping frame (see 21.3.3) and place the assembly on the solid base of the free-fall test apparatus (see 21.3.1). Cover the specimen with a sheet of carbon paper with its coated face in contact with the decorative surface. Adjust the height scale so that its base is touching the face of the specimen.</li> <li>Position the electromagnet at any arbitrary height (the specification limit for the material under test is a useful starting point).</li> <li>Place the steel ball (see 21.3.2) on the energized electromagnet. Operate the release mechanism so that the ball fails on the specimen, catching the ball on the first rebound so that multiple impacts do not occur.</li> <li>Examine the surface tested for damage at the point of impact. If cracking is evident, or the carbon imprint is greater than the diameter specified, lower the electromagnet and repeat the test. If no cracking is evident and the imprint is smaller than the specified diameter, raise the electromagnet and repeat the test. The distance between points of impact, and between points of impact and the edge of the specimen, shall be at least 50 mm. For referee purposes, only one impact per specimen shall be made, with the point of impact as near</li> </ol>	Impact height: 2.4m  Remark: The Max. height of the impact device is 2.4m



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**Test Report** No.: SHHL1901004220BM Date: FEB. 25, 2019 Page: 6 of 11

Test property	Test Procedure/Requirement	Rating/Result
Resistance to cracking under stress(lamina te ≤ 2mm	as possible to the centre of the specimen. 6. Repeat the above procedure, as necessary, to determine the impact resistance of the laminate under test.  Measure the thickness of the laminate under test.  Pre-condition the specimens for 72h in a standard atmosphere of (23±2) ℃ and (50±5)% relative humidity.  Pre-heat the clamping device in the oven for 2h at (50±2) ℃. Take the specimen under test from the conditioning chamber, place it immediately in the pre-heated clamping device, and tighten the nuts firmly to prevent movement of the specimen.  Male reference marks on the surface of the specimen adjacent to each clamping block to confirm absence of movement. Place the clamping device containing the specimen in the oven at (50±2) ℃.  After (6±0.25)h, remove the device from the oven, check the reference marks to ensure that the specimen has not moved, and immediately examine the specimen (while still hot and clamped in the device) with the naked eye and under x6 magnification for signs of cracking around the hole. The light intensity during the examination shall be 800 lux to 1000 lux.	Rating/Result  Rating 5
•		nating 5



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**Test Report** No.: SHHL1901004220BM Date: FEB. 25, 2019 Page: 7 of 11

Test property	Tes	t Procedure/Requirer	nent_	Rating/Result
Resistance to scratching	spacing of 1 mm to 2 On the same specim N, 4,0 N, and 6,0 N, between each pair of Remove the specime scratched area of the so that it is engraine Carefully wipe the suany excess contrast scratch.  Examine the surface almost continuous (in can be seen.) The scratch resistate expressed in according to the speciments of the scratch resistate expressed in according to the speciments.	leaving a space of 3 f scratches. en from the apparatuse surface with a suitad in any scratches. urface with clean cottomedium which is not to determine the low.e. > 90 %) double cir	ratch marks. dure with loads of 2,0 mm to 5 mm  s and rub the entire ble contrast medium on fabric to remove engrained in a rest load for which an role of scratch marks under test shall be scale	Rating 1
,	Rating 5 Rating 4 Rating 3 Rating 2 Rating 1	Discontinuous scratches, or faint superficial marks, or no visible marks  6N  4N  2N  1N	≥ 90 % continuous double circle of scratch marks clearly visible >6N 6N 4N 2N 1N	©



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**Test Report** No.: SHHL1901004220BM Date: FEB. 25, 2019 Page: 8 of 11

Test property	-	Test Procedure/Requirement	Rating/Result		
	The test s	hall be carried out in a test at ambient temperature. urface shall be placed horizontally. It shall be tested			
	with the chosen test liquids at points which shall be not less than 60 mm apart, from centre to centre, and if possible, with				
	centres no				
	cloth befo	The test surface shall be lightly wiped with a cleaning retesting			
		a disc into the staining agent between 30 s and 60 s,			
		e tweezers and quickly wipe off the edge of the disc			
		nst the edge of the vessel. Quickly place it on the	1:33/		
		ce and immediately cover with an inverted glass Petri	1//		
		filter paper shall not be in contact with the edge of	at.		
	the glass		1850		
		equired test period, remove the glass Petri dish and	735		
-		disc with the tweezers. Soak up any remaining test	7		
B35		the absorbent paper without rubbing.			
133		h the test surface as specified procedure. After eave the test surface undisturbed, without covering			
. 8	it, for 30 n				
	Rating	Description			
	scale	Description			
	5	No change			
Resistance to		test area indistinguishable from adjacent	0 11.4		
staining		surrounding area	See result 1		
	4	Minor change	(3)		
		test area distinguishable from adjacent			
		surrounding area, only when the light source			
(0)		ismirrored on the test surface and is reflected			
		towards the observer's eye, e. g. discoloration,			
	3	change in gloss and colour  Moderate change			
		test area distinguishable from adjacent			
		surrounding area, visible in several viewing	00000		
		directions, e. g. discoloration, change in gloss			
		and colour			
	2	Significant change	(th)		
	1	test area clearly distinguishable from adjacent	7		
		surrounding area, visible in all viewing			
	100	directions, e. g. discoloration, change in gloss			
	-113	and colour, and / or structure of the surface slightly changed, e.g. cracking, blistering	165		
	1	Strong change	4		
	· '	the structure of the surface being distinctly	860		
1180	7	changed and / or discoloration, change in gloss	13.3		
-4.		and colour, and / or the surface material being	7		
158500		totally or partially delaminated			



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**Test Report** No.: SHHL1901004220BM Date: FEB. 25, 2019 Page: 9 of 11

Result 1: Resistance to staining

	Staining agent	Contacting time	Rating
1	Acetone	16 hours	4
2	Coffee	16 hours	4
3	Sodium hydroxide (25%)	10 minutes	5
4	Hydrogen peroxide (30%)	10 minutes	5
5	Shoe Polish	10 minutes	5



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**Test Report** No.: SHHL1901004220BM Date: FEB. 25, 2019 Page: 10 of 11

8. Resistance to cigarette burns (EN 438-2:2005 Clause 30)

Test Property	Test procedures/requirements	Rating/ Result
Resistance to cigarette burns	Ignite the cigarette and let it burn to consume a length of approximately 10mm.  Place the burning cigarette in full-length contact with the horizontal surface of the specimen in a draught-free area so that the glued seam of the cigarette is not in contact with the specimen. Allow the cigarette to continue burning until an additional 20mm length is consumed. If the cigarette goes out before this occurs, repeat the test.  Remove any superficial combustion residues with a soft cloth moistened with ethanol. Examine the surface with the naked eye, corrected if necessary, for any changes such as discolouration, cracks or blisters.  Rating 5: No visible change.  Rating 4: Slight change of gloss only visible at certain viewing angles and/or slight brown stain.  Rating 3: Moderate change of gloss and/or moderate brown stain.  Rating 2: Severe brown mark, but no destruction of the surface.  Rating 1: Blistering and/or cracks.	Rating 5

The declaration of conformity is only based on the actual value of laboratory activity, measurement uncertainty of the results not take into account.



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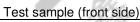
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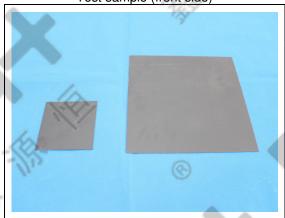


No.: SHHL1901004220BM

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### Sample Photo:





Test sample (back side)



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**Test Report** Date: 22 Feb 2019 No. SHAHG1901602301 Page 1 of 3

CHANGZHOU SUN PLUS LAMINATE CO., LTD WEIXING INDUSTRY AREA, CUIQIAO, HENGLIN TOWN, CHANGZHOU, JIANGSU, 213103, P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: HIGH PRESSURE **LAMINATE** 

CZHL1901000033OT - SH SGS Job No.:

Style No.: 0.8mm **SUN PLUS** Supplier: Date of Sample Received: 22 Jan 2019

Testing Period: 22 Jan 2019 - 22 Feb 2019

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Please refer to next page(s). Test Results:

Result Summary:

Test Requested		Conclusion
Formaldehyde Emission	622	PASS

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jenny Yao Approved Signatory





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No. SHAHG1901602301

Date: 22 Feb 2019

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Test Results:

**Test Part Description:** 

Specimen No. SGS Sample ID Description

SN1 SHA19-016023.001 Black brown board

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

## Formaldehyde Emission

Test Method: With reference to EN 717-1:2004, analysis was performed by UV-Vis.

Test Item(s)

Limit Unit MDL 001

Formaldehyde Emission (In air)

Limit Unit MDL 001

<=0.13 mg/m³ 0.080 ND

Notes:

The maximum permissible limit is quoted from the client requirement.



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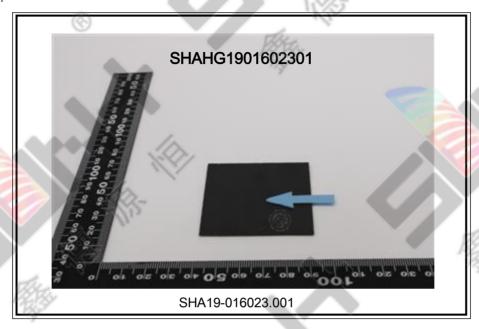
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No. SHAHG1901602301

Date: 22 Feb 2019 Page 3 of 3

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