

No.: SHCCM160501776

Date: Jun. 12, 2016

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CHANGZHOU RICHWOOD DECORATIVE MATERIAL CO., LTD.
NO.8, MUSHIWEI ROAD, QINGFENG VILLAGE, HENGLIN TOWN, CHANGZHOU, JIANGSU, CHINA

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

Sample Name : LAMINATE FLOORING

Sample Number : SHCCM160501776

Test Required : Please see the next pages
Test Method : Please see the next pages

Product specification : 1215*165*12.3mm

Date of Receipt : May. 13, 2016

Test Period : May. 13, 2016 to Jun. 12, 2016

Test result(s) : For further details, please refer to the following page(s)

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

Signed for SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Erin Huang

Authorized signatory





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

Test result:

I. Impact resistance (by large diameter ball)

No.	Test method	Imprint diameter (mm)	Drop height (mm)			
			Individual value	Average value		
1	EN 13329:2006+A1:2008	10.37	1500			
2	Annex F EN 438-2:2005, clause	10.06	1450			
3		10.52	1500	1500		
4		10.29	1500			
5		10.20	1450			
	Specimen dimension: 180mm×180mm×12mm, 5pcs					
Remark	The specimens were cut from original sample.					
	Ball weight: 324g					

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





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II. Resistance to staining

Test method		Staining agent	
T CSt III Ctilod	Agent group	Test agent	Rating ^{note}
	Group 1	Acetone	5
EN 13329:2006+A1:2008	Group 2	Coffee	5
EN 438-2:2005, clause 26	Group 3	Sodium hydroxide (25% solution)	5
LIN 430-2.2003, Clause 20		Hydrogen peroxide (30% solution)	5
		Shoe polish	5
Remark	Test period: Group 1:16h; Group 2:16h; Group 3:10min		

Note:

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

III. Resistance to cigarette burns

Test method	Rating ^{note}
EN 13329:2006+A1:2008	4
EN 438-2:2005, clause 30	4

Note:

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

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



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IV. Thickness swelling

Test point	Test method	Thickness swelling (%)			
rest point		Individual value	Average value		
1		17.2			
2	- I	17.9			
3	EN 13329:2006+A1:2008	16.8	17.4		
4		17.3			
5		17.3			
6		17.7			
	Specimen dimension: 150mm×50mm×12mm, 2pcs (3 test points on each				
Remark	specimen)				
	The specimens were cut from original sample.				
	Immersion period: 24h				

V. Formaldehyde Emission

Test Part Description: Brown-grey wood board

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

Test Item(s) Unit MDL Result Formaldehyde Emission (In air) mg/m³ 0.080 ND

Notes:

(1) mg/m³ = milligrame per cubic meter

(2) Reference Limit: EN 13986:2004(E)

Formaldehyde class E1: ≤0.124 mg/m³ air Formaldehyde class E2: >0.124 mg/m³ air

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





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Remarks:

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

Statement: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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





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Sample photos:



Original sample



Formaldehyde Emission ****** End of report ******

