

JIANGXI GILARDINO BUILDING MATERIALSTECHNOLOGY CO., LTD
ZHONGXIN ROAD, YUJIANG INDUSTRY PARY, YUJIANG COUNTY, YINGTAN CITY, JIANGXI PROVINCE.

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

Sample Description : SPC FLOORING
Sample Receiving Date : Jun. 4, 2019
Test Performing Date : Jun. 4, 2019 to Jun. 21, 2019
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

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



Beck Hong
Approved Signatory



Part 1: SGS Ref. No. is SDHL1906009655HI. This test was subcontracted to Shunde Branch, SGS-CSTC Co., Ltd.

Test Result Summary

No.	Test item	Test(s) Requested(Method)	Result(s)	Comments
1	Short-Term indentation and Residual indentation	ASTM F1914-17	Refer to next page(s)	/
2	Dimensional stability and curling	ISO 23999:2018	Refer to next page(s)	/

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

Test Information:

Sample description: See photo

1. Test item: Short-Term indentation and residual indentation

Test method: ASTM F1914-17

Test condition:

Indenter foot: (4.521±0.0127) mm;

Total Load: (63.5±0.454) kg;

Indentation Time: 10min;

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

Test result:

Sample	Short-Term Indentation	Residual indentation	Conclusion
A	0.014mm	0.008mm	/

2. Test item: Dimensional stability and curling

Test method: ISO 23999:2018

Test condition:

Place the test specimens horizontally on to support plates, previously placed in the oven, and allow to come to (80±2) °C. Maintain the test specimens at this temperature for 6 h in the oven.

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

Test result:

Sample	Curling(mm)	Dimensional stability	
		MD(%)	TD(%)
A	0.1	0.06	-0.05



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Note: MD- Manufacturing direction

TD- Perpendicular to the manufacturing direction

Sample photo(s):



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Part 2: SGS Ref. No. is XMIN190601211CCM, GZIN1906029579MR

Sample Information:

Flooring, See the photographs.

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

Preconditioning: 23±2°C, 50±5%RH for a minimum of 24h

Test Result(s):

Sample A:

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Locking strength	ISO 24334:2014	Specimen: 10 pieces of long side (X direction) specimens 200mm×200mm, 10 pieces of short side (Y direction) specimens 200mm×200mm Loading rate: 0.5 mm/min	Long side(X): 4.9 kN/m Short side(Y): 3.1 kN/m

Sample B:

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Peel Strength	ASTM D903-98(2017)	Specimen: 10 pieces of long side (X direction) specimens 305mm×25mm, 10 pieces of short side (Y direction) specimens 260mm×25mm Loading rate: 152 mm/min	Average: Long side(X): 62.23 N/25mm Short side(Y): 62.78 N/25mm

Sample C:

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Dimensional stability (see note 2)	ISO 23999:2018	Specimens: 240mm×240mm×4mm, 3pcs Condition: 23±2°C, 50±5%RH, 24h → 80±2°C, 360min → 23±2°C, 50±5%RH, 24h	Average: X Direction: 0.02% Y Direction: 0.00%
2	Curling (see note 3)			Average: -0.05mm



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Sample D:

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Static load resistance	ASTM F970-17	Specimen: 50mm×50mm×4mm, 3pcs Condition: 23±2℃, 50±5%RH, 24h →250lb, 24h→ Recovery time: 24h	Residual indentation: 0.01mm

Sample E:

No.	Test item(s)	Test method(s)	Test condition	Test result(s)
1	Scratch Resistance	ISO 1518-1:2011	See annex A	See results (See annex A)

Note: 1. All test specimens were cut from the samples, see the photographs.

2. Dimensional stability, % = (Dimension before exposure to heat - Dimension after exposure to heat)/Dimension before exposure to heat ×100.

3. Curling, mm = Dimension after exposure to heat - Dimension before exposure to heat.

4. Test items of sample E were carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.



Annex A:

Test Item: Scratch resistance

Sample Description: Plastic part

Test Method: ISO 1518-1:2011

Test Condition:

 Rubbing stylus: Hemispherical hard-metal tip of radius (0.5 ± 0.01) mm

Load: 10 N & 20 N

Stroke: 40 mm

Rubbing Rate: (35 ± 5) mm/s

Cycle: 1

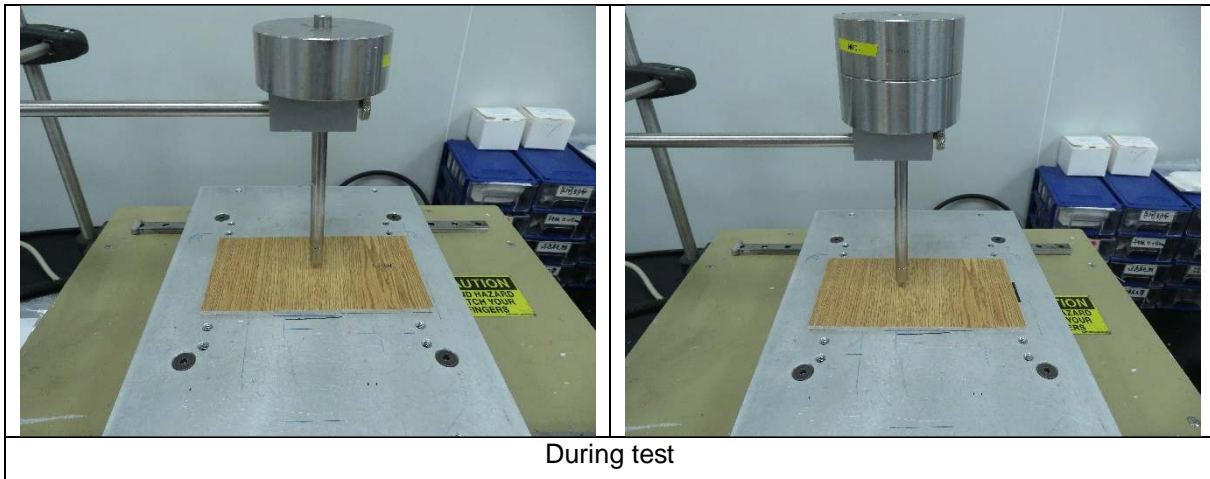
Test Result:

Sample	Load	Result
A	10 N	No penetrated the coating at the load of 10N
	20 N	No penetrated the coating at the load of 20N

Note: Observation magnification is 4X.

Remark: This test report is to supersede No. XMHL1906003285OT test report which was issued on Jun. 21, 2019. And the original test reports (paper and electronic) are invalid.

Test Photo:

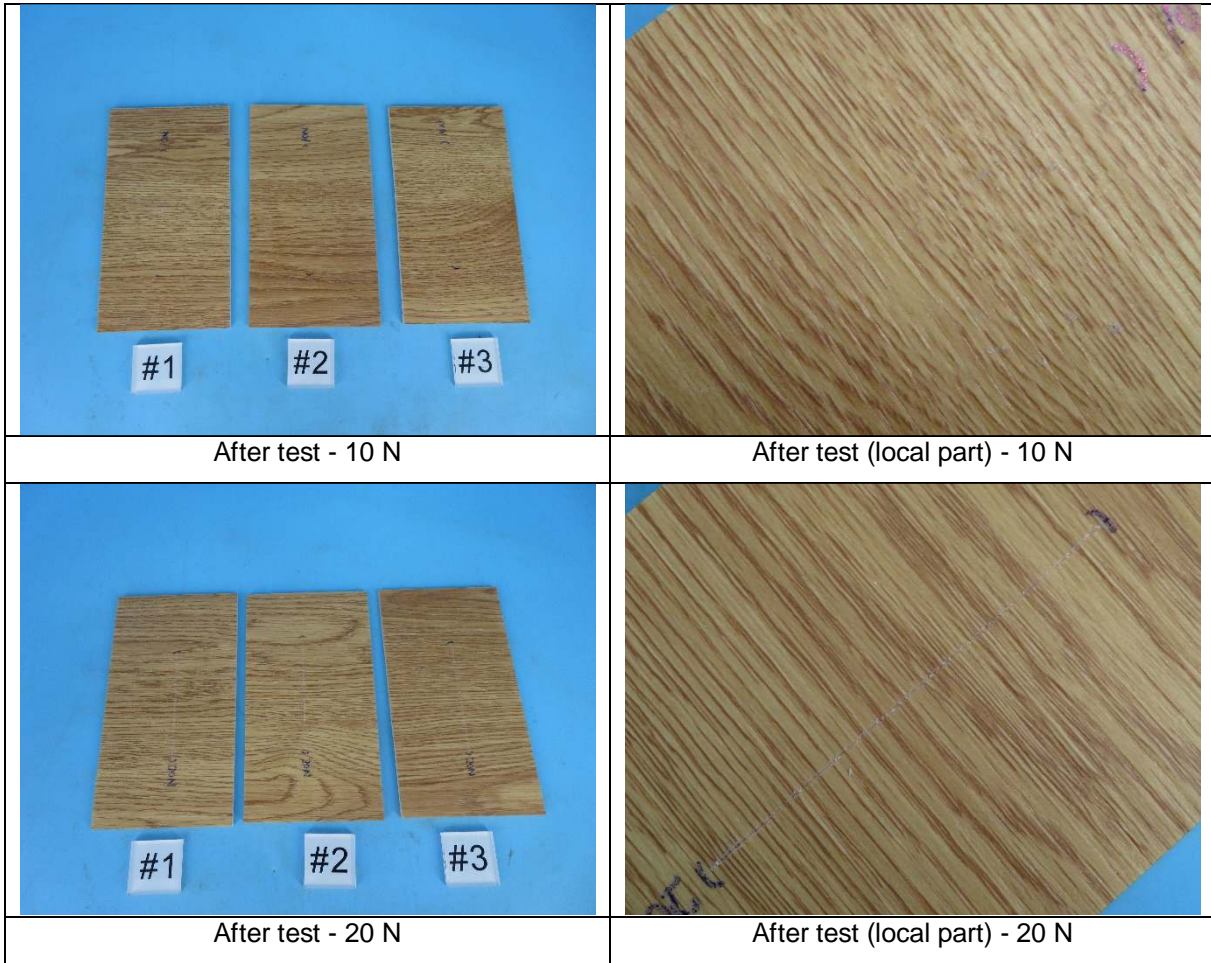


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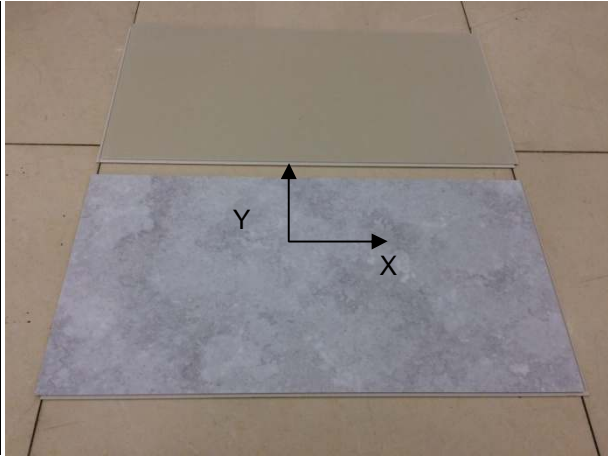
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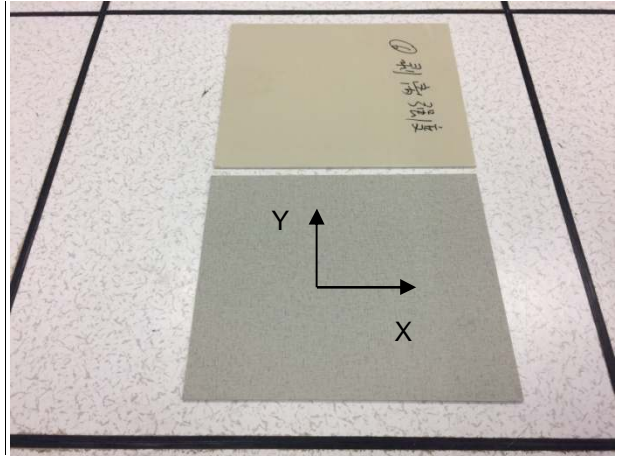
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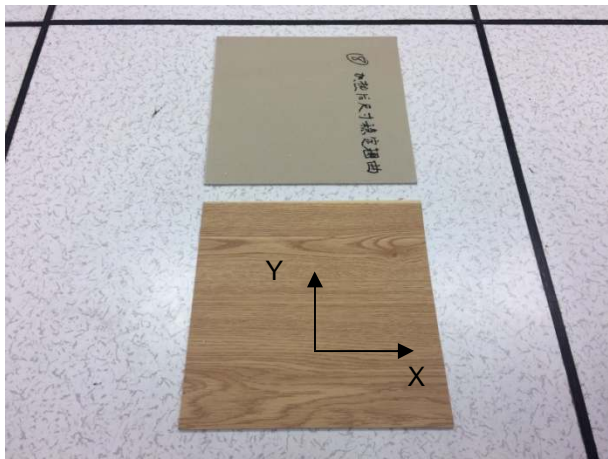
Sample photo(s):



Sample A



Sample B



Sample C



Sample D

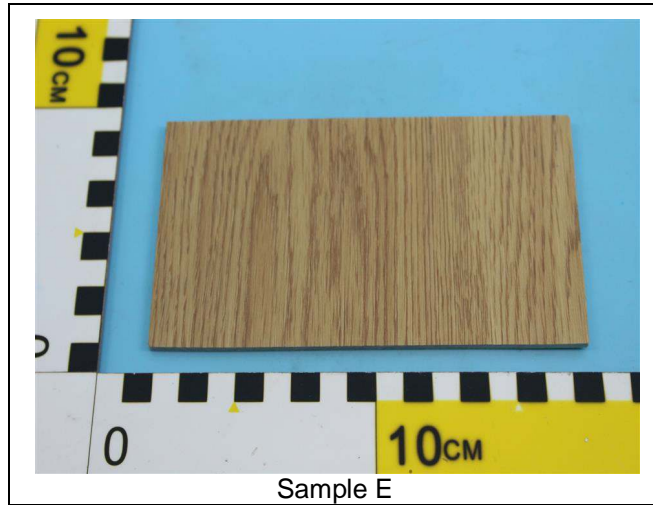


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End of Report

