

TEST REPORT

No. : SHIN2303017041CM

Date : Apr 01, 2023

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scan to see the report



CUSTOMER NAME: CHANGZHOU HUAREN DECORATIVE MATERIAL CO., LTD
ADDRESS: NO.110 CHANGHONG ROAD, WUJIN DISTRICT, CHANGZHOU CITY

Sample Name SPC FLOORING

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 : *****
Please see the next page(s)

Ref. Standard : Please see the next page(s)

Date of Receipt :: Mar 18, 2023

Testing Start Date : Mar 18, 2023

Testing End Date :: Apr 01, 2023

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
Service (Shanghai) Co., Ltd.

Erin Huang
Authorized signatory



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Summary of Result(s):

No.	Test Item	Test Method	Result	Conclusion
1	Dimensional Stability and Curling after Exposure to Heat	With reference to ASTM F2199-09(2014)	See Result	/
2	Static bending	With reference to ASTM D1037-12(2020) Section 9	See Result	/
3	Abrasion Resistance	With reference to ASTM D4060-19 and Client's Requirement	See Result	/
4	Element(s)	With reference to US EPA 3052:1996, analysis was performed by ICP-OES	See Result	/
5	VOC	With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS	See Result	/
6	Phthalates	With reference to ASTM D 3421-75, analysis was performed by GC-MS	See Result	/

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



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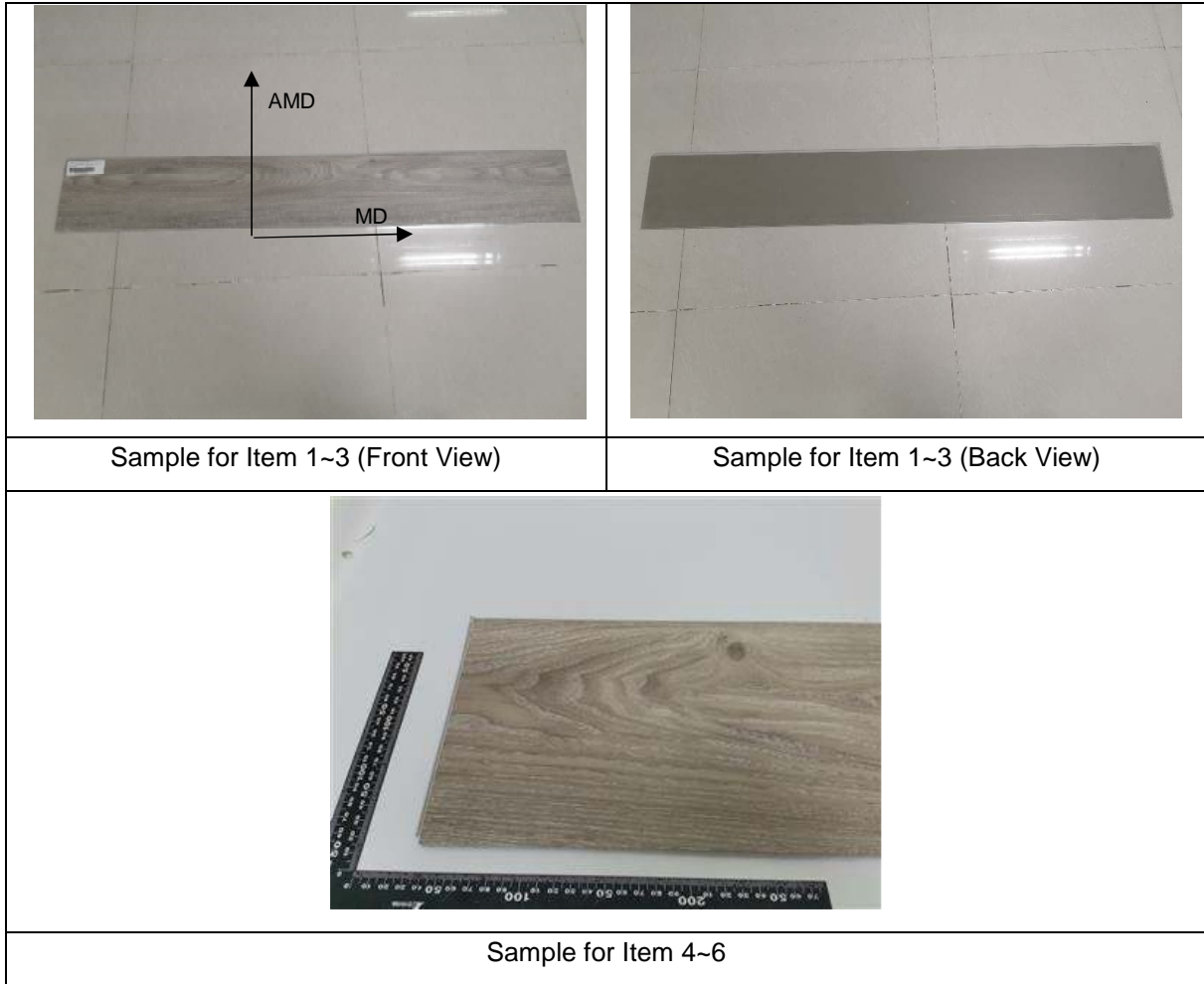
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Original Sample Photo(s):



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1. Test Item: Dimensional Stability and Curling after Exposure to Heat

Test Method: With reference to ASTM F2199-09(2014)

Test Condition:

Specimen: 24.047inx7.129inx0.197in, 5pcs

Heating Temperature: 80°C

Heating Time: 6h

Lab Environmental Condition: 23±1°C, 50±5%RH

Test result:

Test Item	Test result			
	Individual value		Average value	
Linear Change (%)	MD	AMD	MD	AMD
	0.025	0.056	0.040	0.037
	0.042	0.028		
	0.054	0.028		
Curling after Exposure to Heat (in)	0			

Note: The specimens were cut from original sample.



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2. Test Item: Static bending

Test Method: With reference to ASTM D1037-12(2020) Section 9

Test Condition:

Specimen: 200mmx51mmx5mm, 5pcs

Test Rate: 2.4mm/min

Test Span: 120mm

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

Test result:

Test Item	Test Result					
	Individual value					Average value
Modulus of Rupture (MPa)	18.6	18.8	18.9	19.4	18.7	18.9

Note: The specimens were cut from original sample.



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3. Test Item: Abrasion Resistance

Test Method: With reference to ASTM D4060-19 and Client's Requirement

Test Condition:

Specimen: 100mm×100mm×5mm, 3pcs

Wheel: CS-10

Load: 250g/wheel (total 500g)

Cycles: 10000

Test Result:

Test item		Test result			
		Individual value			Average value
Abrasion Resistance	Weight Loss (mg)	26.7	40.4	32.6	33.2
	Wear Index (mg/1000r)	2.67	4.04	3.26	3.3
	Appearance	Visible abrasion trace			

Note: The specimens were cut from original sample.



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4. Test Item: Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Results:

Test Item(s)	Unit	MDL	Results
Cadmium (Cd)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Chromium (Cr)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND



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5. Test Item: Volatile Organic Compounds (VOCs)

Test Method: With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.

Test Results:

Test Item(s)	CAS NO.	Unit	MDL	Results
1,1-Dichloroethylene	75-35-4	mg/kg	1	ND
Dichloromethane	75-09-2	mg/kg	1	ND
cis-/trans-1,2-Dichloroethylene	156-59-2/156-60-5	mg/kg	2	ND
1,1-Dichloroethane	75-34-3	mg/kg	1	ND
2,2-Dichloropropane	594-20-7	mg/kg	1	ND
Bromochloromethane	74-97-5	mg/kg	1	ND
Chloroform	67-66-3	mg/kg	1	ND
1,1,1-Trichloroethane	71-55-6	mg/kg	1	ND
1,1-Dichloropropene	563-58-6	mg/kg	1	ND
Carbon tetrachloride	56-23-5	mg/kg	1	ND
Benzene	71-43-2	mg/kg	1	ND
1,2-Dichloroethane	107-06-2	mg/kg	1	ND
Trichloroethylene	79-01-6	mg/kg	1	ND
1,2-Dichloropropane	78-87-5	mg/kg	1	ND
Dibromomethane	74-95-3	mg/kg	1	ND
Bromodichloromethane	75-27-4	mg/kg	1	ND
Z/E-1,3-Dichloropropene	10061-01-5/10061-02-6	mg/kg	2	ND
Toluene	108-88-3	mg/kg	1	ND
1,1,2-Trichloroethane	79-00-5	mg/kg	1	ND
Tetrachloroethylene	127-18-4	mg/kg	1	ND
1,3-Dichloropropane	142-28-9	mg/kg	1	ND
Dibromochloromethane	124-48-1	mg/kg	1	ND
1,2-Dibromoethane	106-93-4	mg/kg	1	ND
Chlorobenzene	108-90-7	mg/kg	1	ND
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	1	ND
Ethylbenzene	100-41-4	mg/kg	1	ND



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Test Item(s)	CAS NO.	Unit	MDL	Results
m-/p-Xylene	108-38-3/106-42-3	mg/kg	2	ND
o-Xylene	95-47-6	mg/kg	1	ND
Styrene	100-42-5	mg/kg	1	ND
Bromoform	75-25-2	mg/kg	1	ND
Isopropylbenzene	98-82-8	mg/kg	1	ND
Bromobenzene	108-86-1	mg/kg	1	ND
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	1	ND
1,2,3-Trichloropropane	96-18-4	mg/kg	1	ND
n-propylbenzene	103-65-1	mg/kg	1	ND
2-Chlorotoluene	95-49-8	mg/kg	1	ND
4-Chlorotoluene	106-43-4	mg/kg	1	ND
1,3,5-Trimethylbenzene	108-67-8	mg/kg	1	ND
tert-Butylbenzene	98-06-6	mg/kg	1	N
1,2,4-Trimethylbenzene	95-63-6	mg/kg	1	ND
sec-Butylbenzene	135-98-8	mg/kg	1	ND
1,3-Dichlorobenzene	541-73-1	mg/kg	1	ND
1,4-Dichlorobenzene	106-46-7	mg/kg	1	ND
p-Isopropyltoluene	99-87-6	mg/kg	1	ND
1,2-Dichlorobenzene	95-50-1	mg/kg	1	ND
n-Butylbenzene	104-51-8	mg/kg	1	ND
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	1	ND
Hexachlorobutadiene	87-68-3	mg/kg	1	ND
1,2,4-Trichlorobenzene	120-82-1	mg/kg	1	ND
Naphthalene	91-20-3	mg/kg	1	ND
1,2,3-Trichlorobenzene	87-61-6	mg/kg	1	ND
Total of 54 items above		mg/kg	-	ND



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6. Test Item: Phthalates

Test Method: With reference to ASTM D 3423-75, analysis was performed by GC-MS.

Test Results:

Test Item(s)	CAS NO.	Unit	MDL	Results
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.01	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND

Remarks:

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

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