

TEST REPORT

No. : SHIN2401000310CM01_EN

Date : 2024-02-29

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CUSTOMER NAME:

ADDRESS: B3012, DONGCHANG EAST ROAD, LIAOCHENG CITY, SHANDONG
PROVINCE, CHINA

Sample Name : SPC FLOORING

Product Specification : Size:1220*184*4mm Wear-layer thickness0.3mm

Manufacturer :

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. : QDIN2401000018CM01

Date of Receipt : 2024-01-31

Testing Period : 2024-01-31 ~ 2024-02-27

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..

Xander Yang
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Overall Thickness	ISO 10582:2017 Table 2 & ISO 24346:2006	See Result	N/A
2	Wear Layer Thickness	ISO 10582:2017 Table 2 & ISO 24340:2006	See Result	N/A
3	Total Mass per Unit Area	ISO 10582:2017 Table 2 & ISO 23997:2007	See Result	N/A
4	Dimensional Stability and Curling after Exposure to Heat	ISO 10582:2017 Table 2 & ISO 23999:2021	See Result	N/A
5	Residual Indentation	ISO 10582:2017 Table 2 & ISO 24343-1:2007	See Result	N/A
6	Effect of Castor Chair	ISO 10582:2017 Table 2 & ISO 4918:2016/Amd1:2018	See Result	N/A
7	Flatness	ISO 10582:2017 Table 2 & Annex B	See Result	N/A
8	Openings and Height Differences	ISO 10582:2017 Table 2 & Annex C	See Result	N/A
9	Locking Strength	ISO 10582:2017 Table 3 & Annex D	See Result	N/A
10	Side Length, Edge Straightness and Squareness of Tiles	With Reference to ISO 10582:2017 Table 2 & ISO 24342:2018	See Result	N/A



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11	Staining and Resistance to Chemicals	ISO 10582:2017 Annex A & ISO 26987:2008 & Client's Requirement	See Result	N/A
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Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
N/A : Not Apply to the judgment.

Original Sample Photo(s):



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1. Test Item: Overall Thickness

Test Method: ISO 10582:2017 Table 2 & ISO 24346:2006

Test Condition:

Specimen: 100mm×50mm×4mm, 5pcs

Nominal Value: 4mm

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

Test Result:

Test Item	Test Result	Requirement in ISO 10582:2017 Table 2
Overall Thickness (mm)	Average Value: 4.04 Maximum Value: 4.05 Minimum Value: 4.02	Average Value: 3.90~4.13 Individual Value: 3.89~4.19

Note: Test specimens were cut from original sample.



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2. Test Item: Wear Layer Thickness

Test Method: ISO 10582:2017 Table 2 & ISO 24340:2006

Test Condition:

Specimen: 25mm×10mm×4mm, 5pcs

Nominal value: 0.3mm

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

Test Result:

Test Item	Test Result	Requirement in ISO 10582:2017 Table 2
Wear Layer Thickness (mm)	Average Value: 0.3000 Maximum Value: 0.3075 Minimum Value: 0.2950	Average Value: 0.2700~0.3390 Individual Value: >0.2508

Note: Test specimens were cut from original sample.



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3. Test Item: Total Mass per Unit Area

Test Method: ISO 10582:2017 Table 2 & ISO 23997:2007

Test Condition:

Specimen: 100mm×100mm×4mm, 5pcs

Nominal value: 8000 g/m²

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

Test Result:

Test Item	Test Result	Requirement in ISO 10582:2017 Table 2
Total Mass per Unit Area (g/m ²)	8430	7200~9040

Original Data:

Test Item	Test Result					
	Individual Value					Average Value
Total Mass per Unit Area (g/m ²)	8450	8410	8470	8350	8460	8430

Note: Test specimens were cut from original sample.



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

Test Method: ISO 10582:2017 Table 2 & ISO 23999:2021

Test Condition:

Specimen: 610mm×184mm×4mm, 3pcs

Heating Temperature: 80°C

Heating Time: 6h

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

Test Result:

Test Item		Test Result	Requirement in ISO 10582:2017 Table 2
Dimensional Change (%)	Manufacturing Direction	0.00	≤0.4
	Across-manufacturing Direction	0.00	
Curling (mm)		0.0	≤8

Original Data:

Test Item		Test Result	
Dimensional Stability and Curling after Exposure to Heat	Dimensional Change (%)	Manufacturing Direction	Average Value: 0.00
		Across-manufacturing Direction	Average Value: 0.00
	Curling (mm)	0.0	

Note:

- 1). Negative values indicate shrinkage, and positive values indicate expansion.
- 2). Test specimens were cut from original sample.



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5. Test Item: Residual Indentation

Test Method: ISO 10582:2017 Table 2 & ISO 24343-1:2007

Test Condition:

Specimen: 60mm×60mm×4mm, 3pcs

The Diameter of Indenter: 11.30mm

The Total Force: 500N

Maintain Time: 150min

Recovery Time: 150min

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

Test Result:

Test Item	Test Result	Requirement in ISO 10582:2017 Table 2
Residual Indentation (mm)	0.03	≤0.1

Original Data:

Test Item	Test Result			
	Individual Value			Average Value
Residual Indentation (mm)	0.02	0.04	0.02	0.03

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6. Test Item: Effect of Castor Chair

Test Method: ISO 10582:2017 Table 2 & ISO 4918:2016/Amd1:2018

Test Condition:

Specimen: $\Phi 750\text{mm} \times 4\text{mm}$, 1pc

Load: 90kg

Type of wheels: Type W

Cycles: 25000r

Type of specimen: Resilient floor coverings

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$

Test Result:

Test Item	Test Result	Requirement in ISO 10582:2017 Table 2
Effect of Castor Chair	25000r, No visible damage	After 25 000 cycles , no delamination shall occur. No disturbance to the surface other than a slight change in appearance.

Note: Test specimens were cut from original sample.



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7. Test Item: Flatness

Test Method: ISO 10582:2017 Table 2 & Annex B

Test Condition:

Specimen: 1220mm×184mm×4mm, 5pcs

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

Test Result:

Test Item		Test Result	Requirement in ISO 10582:2017 Table 2
Flatness (%)	Length	Concave: 0.00	≤0.50
	Width	Concave: 0.00	≤0.10



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8. Test Item: Openings and Height Differences

Test Method: ISO 10582:2017 Table 2 & Annex C

Test Condition:

Specimen: 1220mm×184mm×4mm, 8pcs

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

Test Result:

Test Item	Test Result	Requirement in ISO 10582:2017 Table 2
Openings (mm)	Average Value: 0.00 Maximum Value: 0.05	Average Value≤0.15 Individual Value≤0.20
Height Differences (mm)	Average Value: 0.00 Maximum Value:0.05	Average Value≤0.10 Individual Value≤0.15



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9. Test Item: Locking Strength

Test Method: ISO 10582:2017 Table 3 & Annex D

Test Condition:

Specimen: 200mm×100mm×4mm, 10pcs (5 pcs for long side, 5 pcs for short side)

Test rate: 100mm/min

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

Test Result:

Test Item		Test Result	Requirement in ISO 10582:2017 Table 2
Locking Strength (kN/m)	Long Side	6.0	Only for Commercial use: Class 31, 32, 33: ≥1.5 kN/m Class 34: ≥2.0 kN/m
	Short Side	5.0	

Original Data:

Test Item		Test Result					
		Individual Value					Average Value
Locking Strength (kN/m)	Long Side	5.7	6.1	6.0	6.2	5.9	6.0
	Short Side	5.1	5.5	4.4	4.8	5.1	5.0

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10. Test Item: Side Length, Edge Straightness and Squareness of Tiles

Test Method: With Reference to ISO 10582:2017 Table 2 & ISO 24342:2018

Test Condition:

Specimen: 1220mm×184mm×4mm, 5pcs

Nominal length: 1220mm

Nominal width: 184mm

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

Test Result:

Test Item		Test Result	Requirement in ISO 10582:2017 Table 2
Side Length, Edge Straightness and Squareness of Tiles	Length	1220	1219.5~1220.5
	Width	184.1	183.816~184.184
	Squareness	0.00	≤0.50
	Straightness	Long Side: 0.00 Short side: 0.00	Side length≤400mm: ≤0.25mm Side length>400mm: ≤0.35mm Side length>400mm(Intended for heat welding): ≤0.50mm

Original Data:

Test Item	Length	Width	Straightness	Squareness
Side Length, Edge Straightness and Squareness of Tiles	Ave.: 1220mm Max.: 1220mm Min.: 1220mm	Ave.: 184.1mm Max.: 184.1mm Min.: 184.0mm	0.00mm	0.00mm



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11. Test Item: Staining and Resistance to Chemicals

Test Method: ISO 10582:2017 Annex A & ISO 26987:2008 & Client's Requirement

Test Condition:

Specimen: 100mm×100mm×4mm, 5pcs

Testing Surface: Front view

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

Test Result:

Test Item	Reagent	Testing Time	Test Result
Staining and Resistance to Chemicals	Acetone	2h	Index 0
	Coffee	2h	Index 0
	Sodium hydroxide 25% solution	2h	Index 0
	Hydrogen peroxide 35% solution	2h	Index 0
	Black shoe polish	2h	Index 0

Expression of result:

Index	Effect of test after cleaning / abrasion
0	Not affected
1	Slight
2	Moderate
3	Severe

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



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Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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