

TEST REPORT

No. : XMIN2311001517CM01-1_EN

Date : 2024-01-24

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CUSTOMER NAME: DECNO GROUP LIMITED
ADDRESS: LONGQUAN ROAD, ZHANGQIU DISTRICT, JINAN CITY, SHANDONG PROVINCE, CHINA

Sample Name : SPC FLOORING
Product Specification : 1500x228x6.5mm(5mm SPC + 1.5mm IXPE)
Material : 100% Virgin material

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. : GZMR231203573101
Date of Receipt : 2023-11-29
Testing Period : 2023-11-29 ~ 2023-12-26
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 Co.,Ltd. Xiamen Branch.

Bryan

Bryan Hong
Authorized signatory



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Sample Information:

Flooring, See the photograph.

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

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

Test Result(s):

Nominal value: Side Length 1500mm, Width 228mm, Overall thickness 6.5mm,

Wear-layer thickness 0.5mm, Mass per unit area 10550g/m²

No.	Test Item	Test Method	Test Condition	Requirement of ISO 10582:2017	Test Result
1	Side Length	ISO 24342:2018	Specimen: 1500mm×228mm×6.5mm, 5pcs	Deviation ≤ 0.15 % of nominal length up to 0.5 mm maximum	Average: 1500mm
2	Width			Deviation ≤ 0.10 % of up to 0.5 mm maximum	Average: 228.13mm
3	Squareness			Side length ≤400mm: ≤0.25 mm; Side length >400mm: ≤0.35 mm; Side length >400 mm (intended for heat welding): ≤0.50mm;	Deviation range: X Direction: -0.05mm~0.00mm Y Direction: -0.05mm~0.05mm
4	Straightness				Deviation range: X Direction: 0.00mm~0.05mm Y Direction: 0.00mm~0.05mm
5	Overall thickness	ISO 24346:2006 (R2015)	Specimen: 150mm×150mm×6.5mm, 5pcs Mass applied: 0.20±0.02kg Diameter of upper plate: 25.3±0.1mm Load time: 5s	Average value: Nominal thickness +0.13mm/-0.10mm (6.40mm~6.63mm); Individual results: Average value±0.15mm (6.48mm~6.78mm);	Ave.: 6.63mm Max.: 6.68mm Min.: 6.54mm



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No.	Test Item	Test Method	Test Condition	Requirement of ISO 10582:2017	Test Result
6	Thickness of wear layer	ISO 24340:2006 (R2015)	Specimen: 25mm×10mm×6.5mm, 5pcs	Average value: Nominal thickness +13%/-10% & ±0.1mm (0.45mm~0.56mm); Individual results: > average value -0.05mm or -15%, whichever is greater (>0.43mm)	Ave.: 0.48mm Max.: 0.50mm Min.: 0.45mm
7	Mass per unit area	ISO 23997:2007 (R2018)	Specimen: 100mm×100mm×6.5mm, 5pcs	Nominal value +13%/-10%	Average: 10590 g/m ² Deviation from nominal value: 0%
8	Dimensional stability (see note 2)	ISO 23999:2021	Specimen: 610mm×228mm×6.5mm, 3pcs Condition: 23±2°C, 50±5%RH, 24h → 80±2°C, 360min → 23±2°C, 50±5%RH, 24h	Tiles/planks intended for dry-joint laying and glued installation: ≤ 0.25 %; Tiles/planks intended for loose lay or floating installation: ≤ 0.15 %.	Average: X Direction: -0.05% Y Direction: 0.00%
9	Curling			Tiles/planks intended for dry-joint laying and glued installation: ≤ 2 mm; Tiles/planks intended for loose lay or floating installation: ≤ 1 mm.	Average: Curling _{initial} : 0.5mm Curling _{final} : 0.0mm
10	Residual indentation	ISO 24343-1:2007(R2015)	Specimen: 60mm×60mm×5mm, 3pcs (without underlay) Applied load: 500N Load time: 150min Recovery time: 150min	≤0.1mm	Average: 0.04mm



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No.	Test Item	Test Method	Test Condition	Requirement of ISO 10582:2017	Test Result
11	Effect of a Castor Chair	ISO 4918:2016 +Amd.1:2018	Specimen: without underlay Load: 90kg Type of wheels: Type W Cycles: 25000	(only for ≥class 32) After 25 000 cycles, no delamination shall occur. No disturbance to the surface other than a slight change in appearance.	No visible damage
12	Colour Fastness To Light	ISO 105-B02:2014; Method 3	Use Xenon arc lamp, Exposure Cycle: A1, no flip-flop mode was used	6 minimum	Comparison upto blue wool reference 6; Grade(B.W.S): Better than 6
13	Flatness	ISO 10582:2017 Annex B	Specimen: 1500mm×228mm×6.5mm, 5pcs	Length flatness: concave ≤0.50% convex ≤1.00% Width flatness: concave ≤0.10% convex ≤0.15%	Length flatness(X): no concave convex 0.02% Width flatness(Y): concave 0.10% convex 0.05%
14	Openings	ISO 10582:2017 Annex C	Specimen: 1500mm×228mm×6.5mm, 8pcs	Ave.: ≤0.15mm Individual values: ≤0.20mm	Ave.: 0.00mm Max.: 0.05mm
15	Height difference			Ave.: ≤0.10mm Individual values: ≤0.15mm	Ave.: 0.05mm Max.: 0.10mm
16	Locking strength	ISO 10582:2017 Annex D	Specimen: 10 pieces of long side specimens (X Direction) 100mm×100mm×6.5mm, 10 pieces of short side specimens (Y Direction) 100mm×100mm×6.5mm Loading rate: 100 mm/min	Only for Commercial use: Class 31, 32, 33: ≥1.5 kN/m; Class 34: ≥2.0 kN/m	Average: Long side(X): 4.8 kN/m Short side(Y): 4.1 kN/m



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No.	Test Item	Test Method	Test Condition	Requirement of ISO 10582:2017	Test Result
17	Binder content (Composition Analysis)*	ISO 10582:2017 Clause 4.1 & FTIR, PGC-MS, GC-MS, EDX	See Annex A	See Annex A	100%
18	Classification	ISO 10874:2009	See Annex B	See Annex B	Complied with class 23, class 32 (See Annex B)

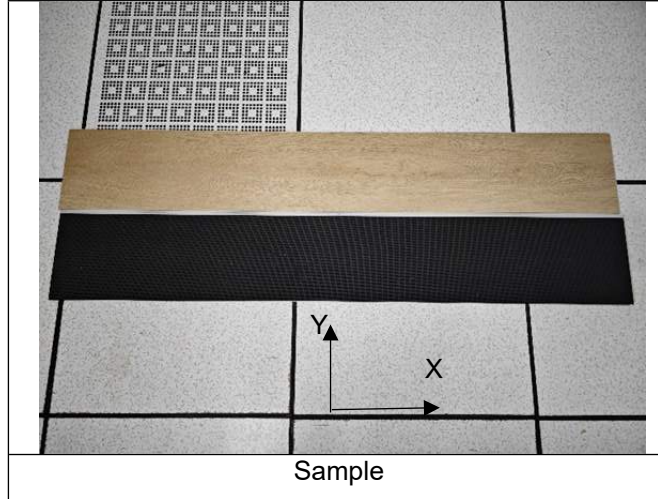
Note: 1. All test specimens were cut from the samples, see the photograph.

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

3. Removed underlay prior to testing of Residual indentation and Effect of a Castor Chair.

4. * test project/method was carried out by subcontractors.

Original Sample Photo:



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Annex A

Binder content (Composition Analysis)*

Sample Description: See photo

Test Method:

Fourier Transform Infrared Spectrometer (FTIR)

Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS)

Gas Chromatography Mass Spectrometry (GC-MS)

Energy dispersive X-ray fluorescence spectrometer (EDX)

Test Result:

No.	Composition	Content, Wt%
1	Poly (vinyl chloride) (PVC)	76
2	Diethyl terephthalate (DOTP)	24
3	Stearic acid salt (See Note 2)	

Note:

1. Wt% - weight percent.
2. Stearic acid salt < 1%.
3. Quantitative data is for reference only.
4. According to ISO 10582:2017 Clause 3.5, Binder Content is 100%

Binder content: 100%

Remark: Binder content is portion of the flooring composition, consisting of poly(vinyl chloride) resin, plasticizers and stabilizers. Binder content is expressed as a percentage mass fraction of the wear layer.

Conclusion: When assessed to the requirements in ISO 10582:2017 Clause 4.1 Table 1, the flooring is classified as **Type I**.



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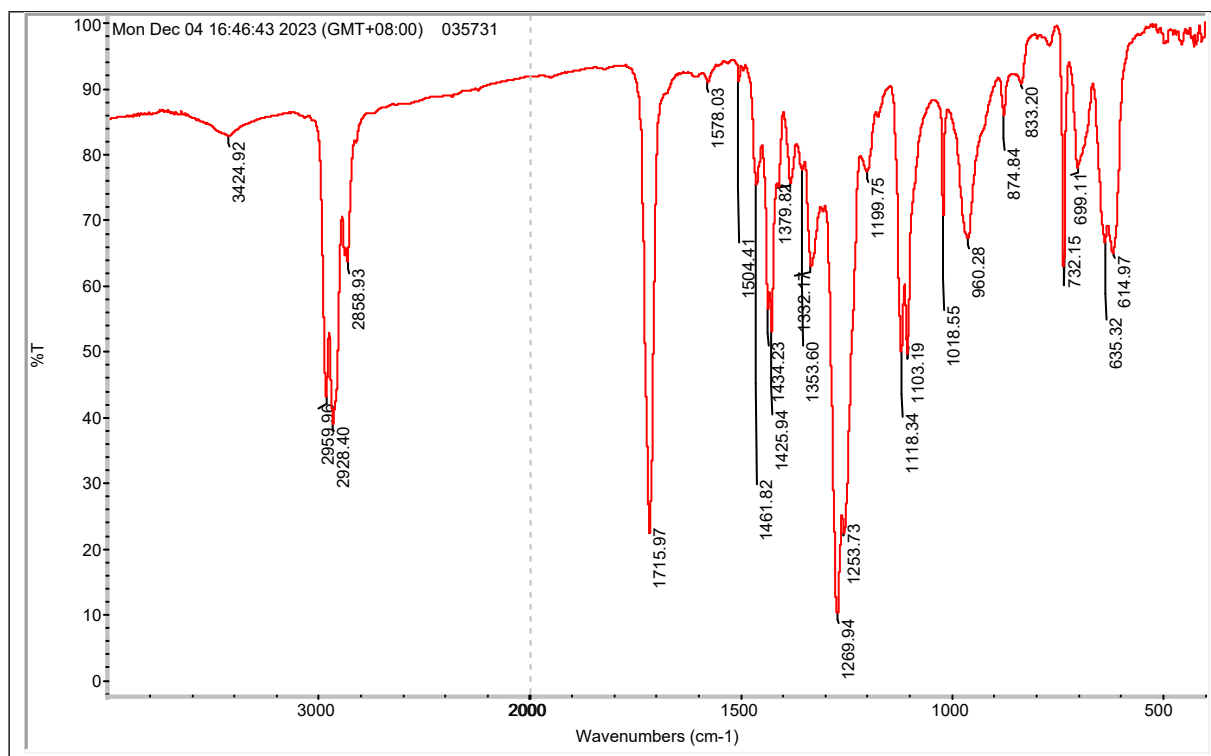
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Requirements in ISO 10582:2017 Clause 4.1 Table 1 — Identification requirements

Type	Minimum wear layer binder content
I	80 %
II	30 %

Fig.1: FTIR spectrum of original sample



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Annex B

Classification

Test Requirement:

ISO 10582:2017 Resilient floor coverings - Heterogeneous poly(vinyl chloride) floor coverings - Specification

ISO 10874:2009 Resilient, textile and laminate floor coverings - Classification

Declared class: class 23, class 32

Type of product: Heterogeneous

Test Result:

Nominal value:

Overall thickness: 6.5mm; Wear layer thickness: 0.5mm

Test item(s)	Overall thickness	Thickness of wear layer
Test method(s)	ISO 24346:2006(R2015)	ISO 24340:2006(R2015)
Test condition	Specimen: 150mm×150mm×6.5mm, 5pcs Mass applied: 0.20±0.02kg Diameter of upper plate: 25.3±0.1mm Load time: 5s	Specimen: 25mm×10mm×6.5mm, 5pcs
Test result(s)	Ave.: 6.63mm Max.: 6.68mm Min.: 6.54mm	Ave.: 0.48mm Max.: 0.50mm Min.: 0.45mm
Requirement of ISO 10582:2017	Average value: Nominal thickness +0.13mm/-0.10mm (6.40mm~6.63mm); Individual results: Average value±0.15mm (6.48mm~6.78mm); Classification requirements for level of use: Domestic - Class 23: 1.5mm Commercial - Class 32: 2.0mm	Average value: Nominal thickness +13%/-10% & ±0.1mm (0.45mm~0.56mm); Individual results: > average value -0.05mm or -15%, whichever is greater (>0.43mm) Classification requirements for level of use: Domestic - Class 23, type I: 0.30mm Commercial - Class 32, type I: 0.40mm
Conclusion	Pass	Pass



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Test item(s)	Locking strength
Test method(s)	ISO 10582:2017 Annex D
Test condition	Specimen: 10 pieces of long side specimens (X Direction) 100mm×100mm×6.5mm, 10 pieces of short side specimens (Y Direction) 100mm×100mm×6.5mm Loading rate: 100 mm/min
Test result(s)	Average: Long side(X): 4.8 kN/m Short side(Y): 4.1 kN/m
Requirement of ISO 10582:2017	Classification requirements for level of use: Domestic - Class 23: No requirement ⁽³⁾ Commercial - Class 33: ≥1.5 kN/m
Conclusion	Pass

Class	Symbol	Evaluation				Conclusion
		Type of wear layer*	Overall thickness	Thickness of wear layer	Locking strength	
23		Satisfied (Type I)	Satisfied	Satisfied	No requirement ⁽³⁾	Pass
33		Satisfied (Type I)	Satisfied	Satisfied	Satisfied	Pass

Note (1): The classification of the wear layer shall be identified according to below table.

Type	Minimum wear layer binder content
I	80%
II	30%



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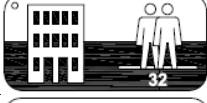


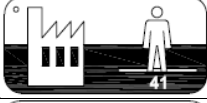
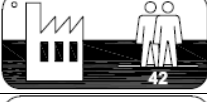

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Note (2): Classification scheme (described in ISO 10874:2009):

Table 1 - Classification

Class	Symbol	Intensity of use	Description
		Domestic	Areas considered for residential use
21		Moderate/Light	Areas with low or intermittent use
22		General/Medium	Areas with medium use
22+		General	Areas with medium to heavy use
23		Heavy	Areas with heavy use
		Commercial	Areas considered for public and commercial use
31		Moderate	Areas with low or intermittent use
32		General	Areas with medium use
33		Heavy	Areas with heavy use
34		Very heavy	Areas with intense use
		Light industrial	Areas considered for light industrial use
41		Moderate	Areas where work is mainly sedentary with occasional use of light vehicles
42		General	Areas where work is mainly standing and/or with vehicular traffic
43		Heavy	Other light industrial areas



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Note (3): Classification requirements for level of use (specified in ISO 10582:2017):

Table 3 - Classification requirements for level of use (minimal)

Class	Symbol	Level of use	Thickness of wear layer, nominal value mm		Nominal overall thickness mm	Seam strength ^{a)} [N/50mm]	Locking strength (when applicable) [kN/m]
		Domestic	Type I	Type II	All types		
21		Moderate/Light	0.15	0.40	1.0	No requirement	No requirement
22		General/Medium	0.20	0.50	1.5		
22+		General	0.20	0.50	1.5		
23		Heavy	0.30	0.65	1.5		
		Commercial					
31		Moderate	0.30	0.65	2.0	When welded in accordance with the manufacturer's instructions: Average value≥240 Individual value≥180	1.5
32		General	0.40	0.80	2.0		1.5
33		Heavy	0.55	1.00	2.0		1.5
34		Very heavy	0.70	1.50	2.0		2


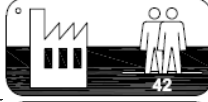

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Table 3 (continued)

Class	Symbol	Level of use	Thickness of wear layer, nominal value mm		Nominal overall thickness mm	Seam strength ^{a)} [N/50mm]	Locking strength (when applicable) [kN/m]
		Light industrial	Type I	Type II	All types		
41		Moderate	0.40	0.80	2.0	When welded in accordance with the manufacturer's instructions: Average value≥240 Individual value≥180	Not applicable ^b
42		General	0.55	1.0	2.0		Not applicable ^b
43		Heavy	0.70	1.50	2.0		Not applicable ^b
Test Method			ISO 24340		ISO 24346	ISO 16906	<u>Annex D</u>
a. Seam strength is not required for products which are intended for gluing with dry-joint laying, for loose lay or floating installation and for tiles/planks with a locking system on the edges.							
b. Tiles and planks with mechanical locking for floating installation are currently not suitable for use in classes 41.42 and 43							

Note: This test report deletes Manufacturer, supersedes the test report No. XMIN2311001517CM01_EN dated 2024-01-18, original report will be invalid from today.

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



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