

TEST REPORT

No. : XMIN2505001087CM01_EN

Date : 2025-07-17

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CUSTOMER NAME: INNER MONGOLIA LUJU PLASTIC PRODUCTS CO.,LTD
 ADDRESS: WEST OF JINGZHANG 4TH RD, NORTH OF JINGZHANG 2ND RD,
 CHAHAR RIGHT FRONT BANNER, ULANQAB CITY, INNER
 MONGOLIA, CHINA

Sample Name : Homogeneous Floor
 Product Specification : 2mmx2m
 Manufacturer : Inner Mongolia Luju Plastic Products Co., Ltd.
 Material : PVC

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. : XMIN2505000066CPC05
 Date of Receipt : 2025-05-20
 Testing Period : 2025-05-20 ~ 2025-06-06
 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 Hong
 Authorized signatory



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Sample Information:

Flooring, See photo.

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

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

Test Result:

No.	Test Item	Test Method	Test Condition	Test Result
1	Overall Thickness	ISO 24346:2006	Specimen: 150mm×150mm×2mm, 5pcs Mass applied: 0.40kg Diameter of upper plate: 8.00mm Load time: 5s	Ave.: 2.17mm Max.: 2.21mm Min.: 2.12mm
2	Mass per Unit Area	ISO 23997:2007	Specimen: 100mm×100mm×2mm, 5pcs	Ave.: 2437g/m ²
3	Dimensional Stability (see note 2)	ISO 23999:2021	Specimen: 240mm×240mm×2mm, 3pcs Condition: (23±2)°C, (50±5)%RH, 24h → 80°C, 360min → (23±2)°C, (50±5)%RH, 24h	Ave.: X Direction: -0.05% Y Direction: -0.05%
4	Curling			Ave.: Curling _{initial} : 0.0mm Curling _{final} : 0.5mm
5	Staining and Resistance to Chemicals	ISO 26987:2008	Specimen: 100mm×100mm×2mm, 5pcs	Index 0: Not affected (See Annex A)
6	Wear Resistance	EN 660-2:1999+A1:2003	Specimen: 100mm×100mm×2mm, 3pcs	F _V =2.6mm ³ /100revolutions Wear Group: P (See Annex B)
7	Shod Ramp Test	DIN EN 16165:2023-02 Annex B	Specimen: 1000mm×500mm×2mm, 1pc	Ramp test value α_{shod} : 13° Slip resistance class: R10 (See Annex C)
8	Colour Fastness to Artificial Light	ISO 105-B02:2014 Method 3	Use Xenon arc lamp, Exposure Cycle: A1, no flip-flop mode was used Comparison up to blue wool reference 6.	Grade (B.W.S): 6

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

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



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Xiamen Branch Testing Laboratory

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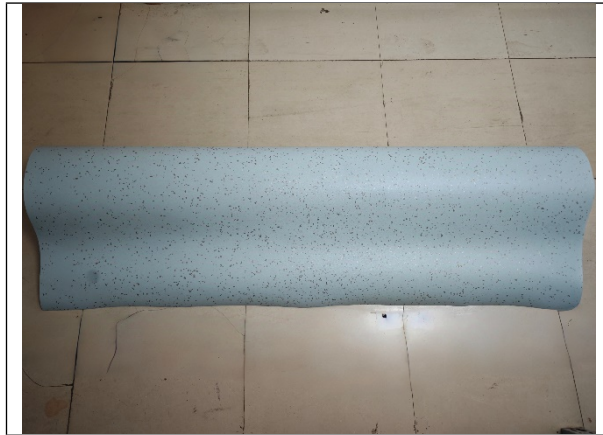
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Specimen photograph:



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Annex A

Test Item: Staining and Resistance to Chemicals

Sample Description: See photo

Test Method: ISO 26987:2008

Test Condition:

Specimen: 100mm×100mm×2mm, 5pcs, cut from original sample

Precondition: at (23±2)°C, (50±5)%RH for 24h.

Procedure: Apply the contaminant to the center of the sample to cover an area of 300mm²~400mm² and let the contaminant to stay for the specified contact time. The main duration of contact shall be 2h. If a stain appears on the test piece after 2h, a new test shall be conducted for a period of 30 min. After removing the contaminant, evaluate the index.

Test Result:

No.	Stain agent	Contact time	Result(Index)
1	Acetone	2h	0
2	Coffee (120g coffee per litre of water)	2h	0
3	Sodium hydroxide 25% solution	2h	0
4	Hydrogen peroxide 30% solution	2h	0
5	Black shoe polish	2h	0

Note: According to ISO 26987:2008 table 1, index is interpreted and presented as follows:

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

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Annex B

Test Item: Wear Resistance

Sample Description: See photo

Test Method: EN 660-2:1999+A1:2003

Test Condition: Weigh the specimens to an accuracy of $\pm 0.1\text{mg}$ after conditioning. Load each wheel with a weight of $(1 \pm 0.01)\text{ kg}$. The flow of abrasive is $(21 \pm 3)\text{g/min}$. Abrade one specimen during 5000 revolutions, with a break for weighing after each cycle of 1000 revolutions, and then test the two remaining specimens. If, however, the first specimen is abraded through before 5000 revolutions, discard it and test the two remaining specimen in cycles of 200 revolutions stopping the test after 2000 revolutions or when the specimen is abraded through.

Calculate the average mass loss. F_m , in milligrams per 100 revolutions for each specimen as follows:

$$F_m = \frac{F_{tot}}{n} \times 100$$

Calculate the loss of volume for each specimen for 100 revolutions as follows:

$$F_v = \frac{F_m}{\rho}$$

Requirement of EN 649:2011:

Characteristic	Requirements for Wear Group			
	T	P	M	F
Volume loss F_v (mm^3)/100revolutions	$F_v \leq 2.0$	$2.0 < F_v \leq 4.0$	$4.0 < F_v \leq 7.5$	$7.5 < F_v \leq 15.0$

Test Result:

Test Result	Wear Group
$F_v = 2.6\text{mm}^3/100\text{revolutions}$	P

Note: 1. All test samples were cut from original sample, see photo.

2. The density of specimen is about 1.183g/cm^3 .



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Annex C

Test Item: Shod Ramp Test

Sample Description: See photo

Test Method: DIN EN 16165:2023-02 Determination of slip resistance of pedestrian surfaces -
Methods of evaluation Annex B Shod ramp test

Test Condition:

Specimen: 1000mm×500mm, 1pc, cut from original sample, see photo

Test surface: see photo

Test Result:

Test Item	Test Result	Slip Resistance Class
Shod Ramp Test	Ramp test value α_{shod} : 13°	R10

DIN EN 16165:2023-02 NB.2 Classification of the results by shod ramp test:

Test Result α_{shod}	Slip Resistance Class
$6^{\circ} \leq \alpha_{shod} \leq 10^{\circ}$	R9
$10^{\circ} < \alpha_{shod} \leq 19^{\circ}$	R10
$19^{\circ} < \alpha_{shod} \leq 27^{\circ}$	R11
$27^{\circ} < \alpha_{shod} \leq 35^{\circ}$	R12
$35^{\circ} < \alpha_{shod}$	R13

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



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