

TEST REPORT

No. : SHIN2506001477CM01_EN

Date : 2025-07-10

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CUSTOMER NAME: POLILAM CO.LTD.

ADDRESS: 4845 HOMESTEAD RD., SUITE 516, HOUSTON, TEXAS 77028

Sample Name : POLILAM HIGH PRESSURE LAMINATE

Product Specification : 1.0mm

Material : Paper ,resin

Color : White

Sample Description : Paper,resin

Other Information : Density: 1398Kg/m3

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. : SHRT25000054R03

Date of Receipt : 2025-06-19

Testing Period : 2025-06-19 ~ 2025-07-10

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	Thickness#	ISO 4586-3:2018 Table 4 & ISO 4586-2:2018 Clause 5	See Result	N/A
2	Resistance to Surface Wear#	ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 11	See Result	N/A
3	Resistance to Immersion in Boiling Water#	ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 13	See Result	N/A
4	Resistance to Dry Heat (Method A)#	ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 17	See Result	N/A
5	Dimensional Stability at Elevated Temperature (Method A)#	ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 19	See Result	N/A
6	Resistance to Impact by Large Diameter Ball#	ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 25	See Result	N/A
7	Resistance to Staining (Method B)#	ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 31	See Result	N/A
8	Thickness	EN 438-2:2016+A1-2018 Clause 5	See Result	N/A
9	Lightfastness*	ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Section 33	See Result	N/A

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



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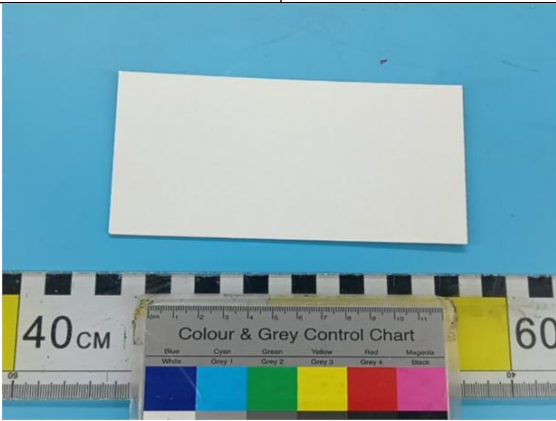
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Original Sample Photo(s):

	
<p>Thickness# / Resistance to Surface Wear# / Resistance to Immersion in Boiling Water# / Resistance to Dry Heat (Method A) # / Dimensional Stability at Elevated Temperature (Method A) # / Resistance to Impact by Large Diameter Ball# / Resistance to Staining (Method B) # / Thickness - Front View</p>	<p>Thickness# / Resistance to Surface Wear# / Resistance to Immersion in Boiling Water# / Resistance to Dry Heat (Method A) # / Dimensional Stability at Elevated Temperature (Method A) # / Resistance to Impact by Large Diameter Ball# / Resistance to Staining (Method B) # / Thickness - Back View</p>
	
<p>Lightfastness*</p>	

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1. Test Item: Thickness#

Test Method: ISO 4586-3:2018 Table 4 & ISO 4586-2:2018 Clause 5

Test Condition:

Specimen: 1240mm×1120mm×1.0mm, 1pc

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

Test Result:

Test Item	Test Result			
Thickness (mm)	1.09	1.08	1.11	1.06

Test project is not within the CNAS accredited scope.

2. Test Item: Resistance to Surface Wear#

Test Method: ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 11

Test Condition:

Specimen: 100mm×100mm×1.0mm, 3pcs

Abrasive paper strips: S-42

Load: 5N/wheel

Test Face: Front View

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

Test Result:

Test Item	Test Result			
	Individual Value			Average Value
The initial wear point (r)	250	225	250	225
Wear Resistance (r)	400	400	400	400

Note: Test specimens were cut from original sample.

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3. Test Item: Resistance to Immersion in Boiling Water#

Test Method: ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 13

Test Condition:

Specimen: 50mm×50mm×1.0mm, 3pcs

Treatment condition: Immersion in boiling water for 2h→ Immersion in cooling water at 23°C for 15min.

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

Test Result:

Test Item		Test Result			
		Individual Value			Average Value
Resistance to Immersion in Boiling Water	Water Absorption (%)	4.11	3.76	4.04	3.97
	Swelling in Thickness (%)	0.97	0.00	0.93	0.56
		0.93	0.99	0.96	
		0.00	0.98	0.98	
		0.00	0.00	0.00	
	Surface Rating Scale*	Rating 5	Rating 5	Rating 5	/
	Edge Rating Scale*	Rating 5	Rating 5	Rating 5	/

Note: Test specimens were cut from original sample.

Test project is not within the CNAS accredited scope.

*Surface rating scale:

Rating 5: No visible change

Rating 4: Slight change of gloss and/or colour, only visible at certain viewing angles

Rating 3: Moderate change of gloss and/or colour

Rating 2: Marked change of gloss and/or colour or surface blistering

Rating 1: Surface layers delamination



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*Edge rating scale:

Rating 5: No visible change

Rating 4: Slight hairline edge cracks visible to the naked eyes

Rating 3: Moderate edge cracks

Rating 2: Severe edge cracks

Rating 1: Core layers delamination



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4. Test Item: Resistance to Dry Heat (Method A)#

Test Method: ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 17

Test Condition:

Specimen: 230mm×230mm×1.0mm, 1pc

Test temperature: 160°C

Test time: 20min

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

Test Result:

Test Item	Test Result
Resistance to Dry Heat	Rating 5

Note: Test specimens were cut from original sample.

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Rating scale:

Rating scale	Description
5	No change Test area indistinguishable from adjacent surrounding area
4	Minor change Test area distinguishable from adjacent surrounding area, only when the light source is mirrored on the test surface and is reflected towards the observer's eye, e.g. discoloration, change in gloss and colour
3	Moderate change Test area distinguishable from adjacent surrounding area, visible in several viewing directions, e.g. discoloration, change in gloss and colour, no change in the surface structure, e.g. deformation, cracking, blistering
2	Significant change Test area clearly distinguishable from adjacent surrounding area, visible in all viewing directions, e.g. discoloration, change in gloss and colour, and/or structure of the surface slightly changed, e.g. slight cracking, slight blistering
1	Strong change The structure of the surface being distinctly changed e.g. strong cracking, strong blistering and/or discoloration, change in gloss and colour, and/or the surface material being totally or partially delaminated



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5. Test Item: Dimensional Stability at Elevated Temperature (Method A)#

Test Method: ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 19

Test Condition:

Specimen: 250mm×50mm×1.0mm, 8pcs (4pcs for each direction)

Treatment condition:

Dry-heat test: 70°C, 24h → 23°C, 1h

High-humidity test: 40°C, 95%RH, 96h

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

Test Result:

Test Item		Test Result		
		Dry Heat Test	High humidity test	Cumulative Dimensional Change
Dimensional Stability at Elevated Temperature (%)	Machine Direction	-0.32	0.07	0.39
	Across-Machine Direction	-0.61	0.17	0.78

Note: Test specimens were cut from original sample.

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6. Test Item: Resistance to Impact by Large Diameter Ball#

Test Method: ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 25

Test Condition:

Specimen: 230mm×230mm×1.0mm, 5pcs

Steel ball: Φ42.8mm, 324g

Impact height: 800mm

Test surface: Front view

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

Test Result:

Test Item		Test Result				
		1	2	3	4	5
Resistance to Impact by Large Diameter Ball	Indentation Diameter (mm)	6.73	6.35	6.24	6.72	6.46
	Appearance	No surface cracking				

Note: Test specimens were cut from original sample.

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7. Test Item: Resistance to Staining (Method B)#

Test Method: ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Clause 31

Test Condition:

Specimen: 400mm×100mm×1.0mm, 15pcs

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

Test Result:

Test Item	Test Result				
	Agent Number	Stain	Testing Time	Grade	Rating
Resistance to Staining	1	Distilled water	24h	0	5
	2	Ethyl alcohol	24h	0	
	3	Acetone	24h	0	
	4	Household ammonia	24h	0	
	5	10% Citric acid	24h	0	
	6	Vegetable oil	24h	0	
	7	Fresh coffee	24h	0	
	8	Fresh tea	24h	0	
	9	Tomato ketchup	24h	0	
	10	Yellow mustard	24h	0	
	11	Tincture of Iodine (or 10 % povidone iodine)	24h	0	
	12	Black permanent marker	24h	0	
	13	HB pencil	24h	0	
	14	Wax crayon	24h	0	
	15	Black paste shoe polish	24h	0	
Total				0	



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Grade: The summary of cleaning and grading according to clause 31.5 is as follows.

Grade	Cleaning and Grading
0	Flush the specimen surface with water and wipe gently with the sponge moistened with water. Blot the specimen dry with a clean, soft, white cloth. If the reagent is removed by this step, then it is graded "0". If any stain remains, proceed with the next step.
1	Wet the specimen with the cleaner. Moisten the sponge with water and place it on the specimen surface. Place the 1 kg mass on top of the sponge. Push the weighted sponge back and forth without downward pressure for 25 cycles. Rinse the specimen with water and wipe dry with a clean, soft, white cloth. If the reagent is removed by this step it is graded "1". If any stain remains, proceed with the next step.
2	Wet the specimen with the cleaner and add baking soda to achieve a paste consistency. Using the polyamide brush, scrub the remaining stain(s) where reagents can still be observed for 25 cycles. The specimen shall not be rubbed so as to permanently mar the surface finish. Rinse the specimen with water and wipe dry with a clean, soft, white cloth. If the reagent is removed by this step it is graded "2". If any stain remains, proceed with the next step.
3	Using a cotton ball (31.3.Z) saturated with acetone, rub the remaining stain(s) gently for up to two minutes. Rinse the specimen with water and wipe dry with a clean, soft, white cloth. If the reagent is removed by this step it is graded "3". If any stain remains, proceed with the next step.



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4	Place a cotton ball (31.3.Z), saturated with hypochlorite bleach on the remaining stain(s) and allow to remain in contact for a period of 2 min. If the reagent is removed by this step it is graded "4". If any stain remains, proceed with the next step.
5	If any reagent(s) remain visible after cleaning, the specimen for that reagent shall be graded a "5".

Assess the results according to the grades specified in clause 31.6.

Rating 5: The staining reagents have no effect. All marks from the reagents were removed with no impairment to the surface appearance other than a change in gloss due to cleaning.

Rating 3: The staining reagents have a moderate effect. One or more slight stains evident, with no other impairment to surface appearance other than a change in gloss due to cleaning.

Rating 1: The staining reagents have a severe effect. One or more heavy stains evident, and/or disturbance of the surface other than a change in gloss due to cleaning.



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8. Test Item: Thickness

Test Method: EN 438-2:2016+A1-2018 Clause 5

Test Condition:

Specimen: 1240mm×1120mm×1.0mm, 1pc

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

Test Result:

Test Item	Test Result			
Thickness (mm)	1.05	1.03	1.02	1.04



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9. Test Item: Lightfastness*

Sample Description: A-Sheet

Test Method: ISO 4586-3:2018 Table 5 & ISO 4586-2:2018 Section 33

Test Condition:

Irradiance: 1.10W/(m² · nm)@420nm

Continuous light at (70±3)°C BPT, (50±3)°C CT, (50 ± 5) %RH

Filter: Window-Q

Exposure duration: 72h

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

Test Result:

Sample A

Specimen	Appearance rating
1	4
2	4
3	4

Note: Appearance rating refers to ISO 4586-2:2018 Section 33.5, as follows:

Rating 5: No Effect — No change in colour or surface finish.

Rating 4: Slight Effect — A slight change in colour or surface finish visible only at certain viewing angles and directions.

Rating 3: Moderate Effect — A moderate change in colour or surface finish that is visible at all viewing angles and directions but does not notably alter the original condition of the specimen.

Rating 2: Severe Effect — A change in colour or surface finish which markedly alters the original conditions of the specimen.

Rating 1: Surface blistering and/or cracking.



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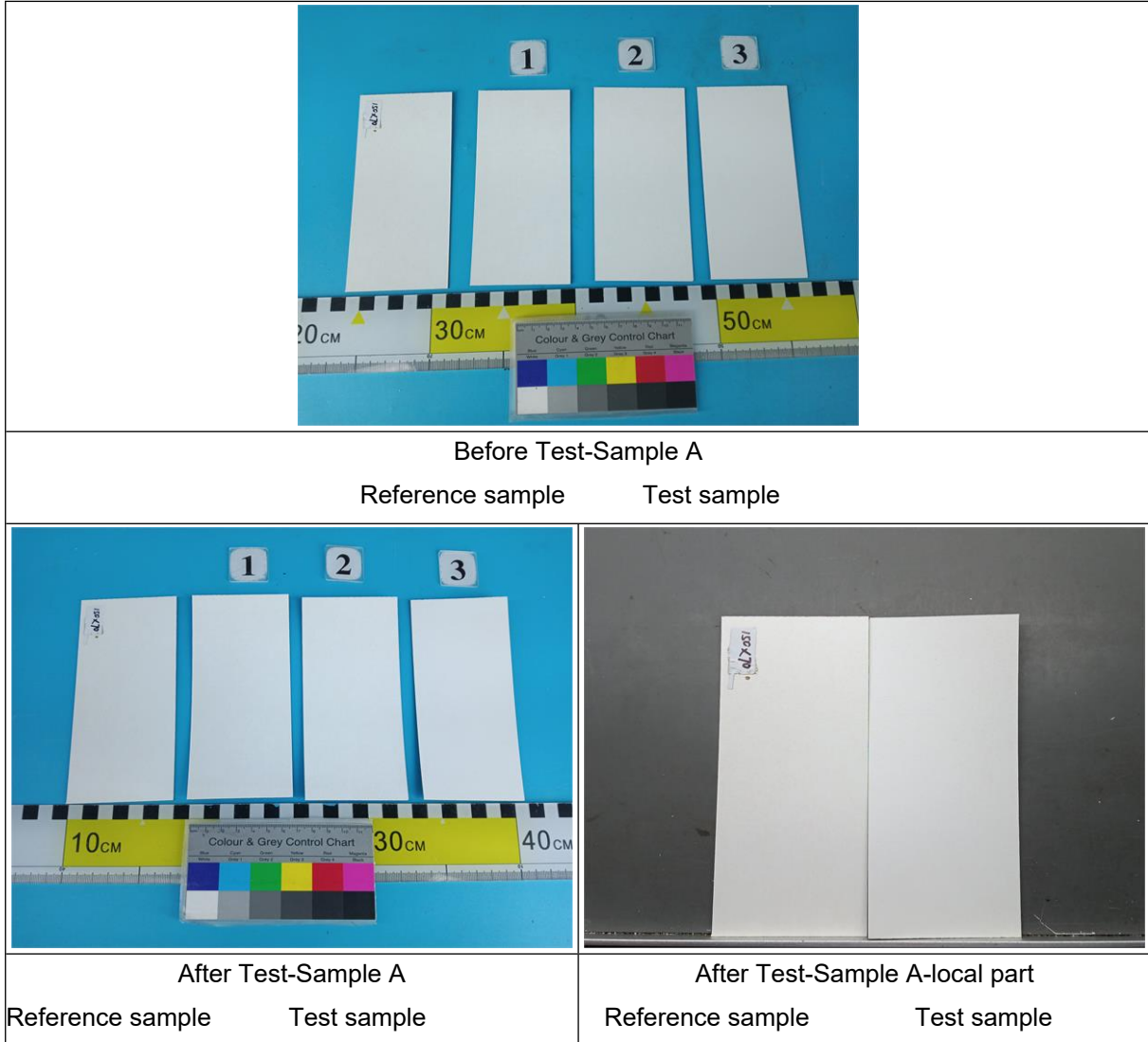
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Test Photo:



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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Xenon Weathering Tester	Q-Sun XE-3-HDS	GZMR-AG-E063	2025-04-15	2026-04-14

* Test project was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center, and is not within the CNAS accredited scope of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center.

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

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



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