



Test Report

No. VNHL1712014696HG-01

Date: January 09, 2018 Page 1 of 4

This test report supersedes report number VNHL1712014696HG dated January 02, 2018

JOYGROUP INVESTMENTS LIMITED

FACTORY: JOYFUL CO., LTD

ROAD 5, TAM PHUOC INDUSTRIAL ZONE, TAM PHUOC COMMUNE, BIEN HOA CITY, DONG NAI PROVINCE, VIETNAM

The following sample(s) was/were submitted and identified by/on behalf of the client as:

SGS Job No. : VNHL1712014696HG-01
Sample Description : DECORATIVE PAPER (JP, JPS, 50G)
Sample Receiving Date : DECEMBER 13, 2017
Final confirmed Date : DECEMBER 14, 2017
Testing Period : DECEMBER 14, 2017 TO JANUARY 02, 2018
Test Requested : PLEASE REFER TO THE RESULT SUMMARY.
Test Results : PLEASE REFER TO NEXT PAGE(S).
Result Summary :

Test Requested	Conclusion
FIRA 6250 – BS 3962 – 6: Resistance to mechanical damage	--
Scrape, surface penetration	Pass / See Results
Scrape, substrate penetration	Pass / See Results
FIRA 6250: Resistance to Oils and Fats (BSEN 12720)	--
Oils (solid vegetable oil)	Pass / See Results
Fats (Butter)	Pass / See Results

Signed for and on behalf of

SGS Vietnam LTD



Wong Cho Wing

Hardline and E&E Lab Manager

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Test result s:

Sample description: 1. DECORATIVE PAPER (JP, JPS, 50G)

FIRA STANDARD 6250:2005 SPECIFICATION: FURNITURE MATERIALS (INTERIOR)

1. Test 1:

BS 3962-6: 1980 Methods of test for Finishes for wooden furniture — Part 6: Assessment of resistance to mechanical damage.

Sample Description and Conditioning

Conditioning	T:(23 ± 2) °C, H:(50 ± 5)%. Duration: 1 Week
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Test Result

Observer	Test results	Conclusion
1 (scrape, surface penetration)	5	PASS
2 (scrape, substrate penetration)	5	PASS

Rating

Appearance of test area	Rating
Cuts are smooth, no finish removed, except for small chips at the intersections of the cuts and an occasional small chip along the cut	5
Finish removed at intersections and intermittently along the cuts	4
Finish consistently removed along the cuts	3
Finish removed along the cuts and completely from one or more of the squares, but from less than 50 % of them	2
Finish removed completely from more than 50 % of the squares	1

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2. Test 5:

Test Conducted:

BS EN 12720 / FIRA Procedure: Resistance to oils and fats (24 hours uncovered)

Conditioning

Conditioning	T:(23 ± 2) °C, H:(50 ± 5)%. Duration: 1 Week
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Test periods

Period	Examples under consideration
24 h	Uncover

Test Result:

Agent	Test results		Fira Requirements	Conclusion
	Observer 1			
	Specimen 1	Specimen 2		
Oils (vegetable oil)	4	/	4	PASS
Fats (Butter)	4	/	4	PASS

Rating

Numerical	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 no change in the surface structure, e.g. swelling, fibre raising, cracking, blistering
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. swelling, fibre raising, 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. swelling, fibre raising, cracking, blistering
1	Strong change the structure of the surface being distinctly changed and / or discoloration, change in gloss and colour, and / or the surface material being totally or partially removed, and / or the filter paper adhering to the surface

Remarks: All above tests were performed in SGS Viet Nam's Hardline Lab.

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Photo appendix



REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY

End of Report

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