

# TEST REPORT

**Intertek**

**REPORT NUMBER: GZ08070275-1**  
ORIGINAL ISSUE DATE: August 11, 2008

## EVALUATION CENTER

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
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Guangzhou, P. R. China 510663

## RENDERED TO

Vertex Floor Limited  
Suite 906 Sheng Gao International Building,  
No.137 Xian Xia Road, Shanghai, P.R. CHINA

PRODUCT EVALUATED:  
Vinyl Plank

EVALUATION PROPERTY:  
Performance test

**Report of Testing 6”X36”X4.5mm Vinyl Plank with wear layer 0.3mm Model: TW1971-3 for compliance with the applicable requirements of the following criteria:  
ISO 105B02-1994(Amd1:1998)(Amd2:2000), Color fastness to artificial light: Xenon arc fading lamp test;  
EN 12667:2001, Thermal performance of building materials and products-Determination of thermal resistance by means of guarded hot plate and heat flow meter methods-Products of high and medium thermal resistance;  
EN 12524:2000, Building materials and products-Hygrothermal properties;**

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# 1 Table of Contents

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1	Table of Contents.....	2
2	Introduction .....	3
3	Test Samples .....	3
	3.1. SAMPLE SELECTION .....	3
	3.2. SAMPLE AND ASSEMBLY DESCRIPTION .....	3
4	Testing and Evaluation Methods .....	3
	4.1. CONDITIONING .....	3
	4.2. SPECIMEN PREPARATION .....	3
	4.3. TEST STANDARD 1.....	3
	4.4. TEST STANDARD 2.....	3
	4.5. TEST STANDARD 3.....	4
5	Testing and Evaluation Results .....	5
	5.1. RESULTS AND OBSERVATIONS.....	5
	5.2. EXAMINATION OF RESULTS .....	5
6	Conclusion .....	6
	Appendix A Product Photos .....	1 page
	Revision Summary.....	1 page

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## 2 Introduction

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Intertek Guangzhou had conducted testing for Vertex Floor Limited on Vinyl Plank, to test the performance on color fastness to Xenon arc fading lamp, thermal properties. Testing was conducted in accordance with ISO 105B02 Method 3, EN 12667. This test began on July 7, 2008 and was completed on August 11, 2008.

## 3 Test Samples

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### 3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the applicant and manufactured by Zhangjiagang Elegant Plastics Co., Ltd, located at Hexing Street, Jinfeng Town, Zhangjiagang City, Jiangsu Province, China. Samples were received at the Evaluation Center on July 7, 2008.

### 3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Model No.	Product description
TW1971-3	Vinyl Plank, size: 6"x36", thickness: 4.5mm, the thickness of wear layer: 0.3mm, IRE, Barnside or Tick embossing and self adhesive. For appearance please refer to appendix A.

## 4 Testing and Evaluation Methods

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### 4.1. CONDITIONING

Before testing, all samples were kept in normal laboratory condition.

### 4.2. SPECIMEN PREPARATION

13 test specimens submitted with nominal size: 6"X36"x4.5mm  
The sample performed color fastness to light test with nominal size: 20mmx40mmx4.5mm;  
The sample performed thermal properties test with nominal size: 200mmx200mmx4.5mm;  
All test samples were not needed for special preparation.

### 4.3. TEST STANDARD 1

ISO 105B02-1994(Amd1:1998)(Amd2:2000)-textiles-Test for color fastness-part 02: Color fastness to artificial light: Xenon arc fading lamp test. Exposed the specimens with two blue wool, continued exposure until grey scale 4 and grey scale grade 3 contrasts has been produced on separate area of the minimum blue wool reference.

### 4.4. TEST STANDARD 2

EN 12667:2001, Thermal performance of building materials and products-Determination of thermal resistance by means of guarded hot plate and heat flow meter methods-Products of high and medium thermal resistance. Used the heat flow meter methods, the average temperature was 25° C.

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**4.5. TEST STANDARD 3**

EN 12524:2000, Building materials and products-Hygrothermal properties-Tabulated design values.



## 5 Testing and Evaluation Results

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### 5.1. RESULTS AND OBSERVATIONS

Standard	Requirement-Test	Result - Remark	Verdict
ISO 105B02	Color fastness to light After being tested by method 3, the Grade of color shall not less than Grade 6.	Grade: Above grade 6	Pass
EN 12667	Thermal performance When tested by means of guarded hot plate and heat flow meter methods, the Thermal resistance, R, using the following equation: $R=(T1-T2)/f e_h$	Used heat flow meter method, the average temperature: 25° C; Thermal conductivity $\lambda$ : 0.089 W/(m.k)	—
EN 12524	Hygrothermal properties Find out the tabulated design value of thermal conductivity for vinyl material.	For PVC material, the design thermal conductivity $\lambda$ : 0.17W/(m.k)	—

### 5.2. EXAMINATION OF RESULTS

Unless otherwise stated in the report, all portions of each test were performed under continuous, direct super vision of the representative of Intertek Guangzhou.

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## 6 Conclusion

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Refer to above results and observations.

Note: When determining of test conclusion, measurement uncertainty of test has been considered.

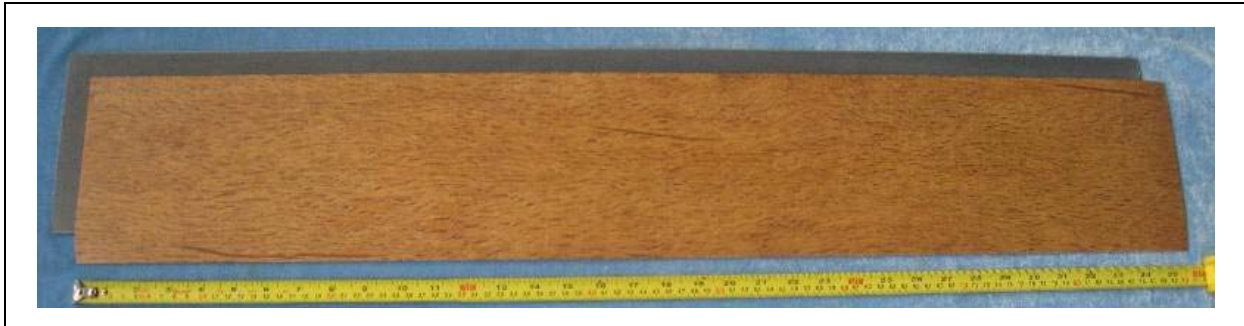
### INTERTEK GUANGZHOU

Reported by: Jeff Deng  
Jeff Deng  
Engineer  
Intertek

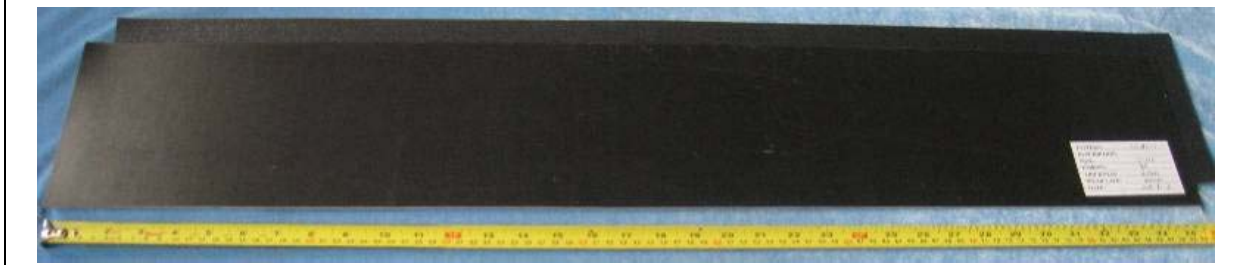
Reviewed by: John Qiao  
John Qiao  
Team Leader  
Intertek

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**Appendix A**  
**Product photos**



Front view



Back view

## REVISION SUMMARY

DATE	SECTION		SUMMARY	INTERTEK INITIALS	
				TECHNICIAN	REVIEWER
August 11, 2008		None	Initial issue	Jeff Deng	John Qiao

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