

Test Report

Report Number:140818009SHJ-BP-1

Applicant Name: Jiangsu Kentier Co., LTD
Applicant Address: Kentier Industrial Park Zone, 88
Development Road Danyang City, Jiangsu Province, China
Attn: Cynthia You

Original Report Date: September 29, 2014**Sample Description:**

Product: WPC Flooring
Model: 1 model
Samples Quantity: 34 pieces
Sample ID: S140818009SHJ-001~034
Date Received: 2014-08-18
Date Test Conducted: 2014-08-18~2014-09-29

Tests Conducted:

Test Methods: Please see the next page(s)

Conclusion:

For details refer to attached page(s).
The conclusions of this test report may not be used as part of the requirements for Intertek product certification.
Authority to Mark must be issued for a product to become certified.

Should you have any queries about the test report, please contact:



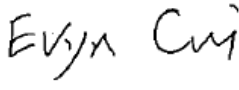
Approved by:	Checked by:	Prepared by:
		
Sun Sun Assistant Manager	Daniel Zhang Senior Project Engineer	Eryn Cui Assistant engineer

Table 1 Test results based on ASTM F1700-13a Standard Specification for Solid Vinyl Floor Tile

Test item	Test method	Requirement	Test result	Verdict
Size	ASTM F2055-10	Length: 1220±1.6mm Width: 148.00±0.19mm	Length: 1220.0mm Width: 148.04mm	Pass
Thickness	ASTM F386-11	A tolerance of ±0.13mm Claimed value: 7.10mm	Average: 7.14mm Min: 7.11mm Max.:7.17mm	Pass
Squareness	ASTM F2055-10	≤0.25mm	Short edge Max.: 0.05mm Long edge Max.: 0.05mm	Pass
Residual indentation	ASTM F1914-07(R2011)	Average residual indentation ≤ 8% Max residual indentation ≤ 10%	Average: 7.7% Max: 8.4%	Pass
Dimension Stability	ASTM F2199-09	≤0.51mm/305mm	MD Max: -0.31mm/200mm (-0.47mm/305mm) CMD Max: 0.12mm/100mm (0.37mm/305mm)	Pass
Resistance to Chemicals	ASTM F925-13	No more than a slight change in surface dulling, surface attack or staining	See Appendix B for details	Pass
Resistance to Heat	ASTM F1514-03(R2013)	ΔE* shall not greater than 8.0 after 7 days exposure to 70°C	ΔE*= 0.41	Pass
Resistance to Light ¹	ASTM F1515-03(R2008)	ΔE* shall not greater than 8.0 after a 300h exposure	ΔE*= 3.38	Pass

Note:

1. Resistance to light was conducted at the external approved/qualified facility, located at [Shanghai].

Table 2 Test results based on other standards

Test item	Test method	Test result
Thickness of wear layer	ASTM F410-08(R2013)	0.27 mm
Tensile strength	ASTM D638-2010	9.9 MPa
Abrasion resistance	ASTM D4060-2010	Wear index ¹ : 13
Peel strength	ASTM D903-98(R2010)	1.76 N/mm
Indentation	ASTM F1914-07(R2011)	1 min: 0.05mm 10 min: 0.10mm
Density	ASTM D6111-13a	1169 kg/m ³
Specular Gloss	ASTM D523-14	11.4
Static coefficient of friction	ASTM C1028-07 ^{e1}	Dry: 0.87 Wet: 0.68
Castor chair resistance	NALFA/ANSI LF-11	No visible damage after 25000 revolutions
Static load	ASTM F970-07(R2011)	Applied load: 250lb Residual indentation: 0.04mm
Internal bond strength and thickness swell after repeated wetting	ASTM D7519-11	Internal bond strength: 2.25MPa Moisture content: Before submersion: 0.01% After submersion: 0.05% thickness swell: 0.59% water absorption: 0.04%
Resistance to impact	ASTM F1265-03a(R2013)	No crack

Note:

1. Wear index: 1000 times the loss in weight in milligrams per cycle. Total revolution is 1000.

Appendix A: Sample photos



Fig,1 front view



Fig.2 back view

Appendix B: Test result of Resistance to chemical

Regent	Rating		
	Surface attack	Color change	Surface dulling
White vinegar (5% acetic acid)	0	0	0
Rubbing alcohol (70% isopropyl alcohol)	0	0	0
White mineral oil (medicinal grade)	0	0	0
Sodium hydroxide solution (5% NaOH)	0	0	0
Hydrochloric acid solution (5% HCl)	0	0	0
Sulfuric acid solution (5% H ₂ SO ₄)	0	0	0
Household ammonia solution (5% NH ₄ OH)	0	0	0
Household bleach (5.25% NaOCl)	0	0	0
Olive oil (light)	0	0	0
Kerozene (K1)	0	0	0
Unleaded gasoline (regular grade)	0	0	0
Phenol (5% active phenol)	0	0	0

According to ASTM F925-13, rating 0-3 represents:

0 = no change; 1 = slight change; 2 = moderate change; 3 = severe change.

Surface Dulling - Indicating that the specimen suffered from a loss of gloss,

Color Change - Indicating that the specimen suffered discoloration or bleaching, or both, and

Surface Attack - Indicating that the specimen suffered surface damage such as softening, warping, swelling, blistering, peeling, raised or rough area.

The End of Report

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