

Certificate of Testing

Fold number CT10-31926

Applicant: Hanwha L & C (1) prosperous factory

Address: 801 Cheongwon buyongmyeon bugangri Chungbuk

Sample of: PVC (vinyl) flooring system (deluxe 300x300 3T)

Date of Receipt: 2010.06.24

Test completion date:

2010.07.12

Purposes: Quality Management

Test

The test results and analysis point unit is equal to the table.

Remarks

1. This report does not guarantee the quality of all products, as a result of the test samples and sample names, the applicant presented.
2. This report is prohibited without the prior written consent our researchers. It cannot be used for public relations, advertising, legal, purposes other than the use of

- Less than margin-

Testing Laboratory: Park Jin Oh

Technical Officer: Choi Dong non

July 12, 2010

**Korean construction of the living environment
Testing & Research Institute**

Chungbuk Support: Bill Ding-dong 312-8, Chungbuk 361-825 Heungduk bihadong Appearance 3rd floor (043) 234-8747-8

Result Inquiry: Part Material evaluation team 02-2102-2665

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[Profiles test results]

TEST CONDUCTED		Unit	Results
Appearance Shape	Defects, cracks	-	Passed
	Detachment		Passed
	Strange irregularities, shape, luster and color tones Irregular, pollution, well, foreign body contamination of		Passed
Dimensions	Thickness	mm	3.01
	Width		300.1
	Length		300
Perpendicularity, Squareness		mm	0.11
Indent quantity		@ 20 °C	0.24
		@ 45 °C	0.25
Residual Indentation		%	2.1
Length change due to heat - Heat-resistant conditions (80 °C, 6 hours)		Width	0.03
		Length	0.04
Heating Loss		%	0.1
Length change due to water absorption - Flood condition (period of exposure, 120 hours)		Width	0.05
		Length	0.06
Scratch test	95% ethanol	mm	1.6
	2% sodium hydroxide solution		1.4
	Soybean Oil		1.4
	Kerosene		2.4
Contamination or Stain Resistance	Soybean Oil	-	No change in gloss and color, does not cause swelling
	Lubricant		
	95% ethanol		
	Cement		
	10% ammonia solution		
	Milk		
	5% acetic acid		
	5% hydrochloric acid		
	Kerosene		
	Soy sauce		
Test methods			KS M 3802 : 2008

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