

## Test Report

No. AJD201101698

Date: MAY.11, 2011

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### HILLS (HONGKONG) CO., LD

UNIT 3/F, BLK2, KOON WAH MIRROR FTY., 6<sup>TH</sup> IND, BLDG, 7-9 HO TIN ST, TUEN MUN, HONGKONG

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

**Sample Description:** SOFT PVC SHEET

**Type/Style:** DC/42FLU

**Thickness:** 0.18MM

**Composition:** PVC RESIN, PLASTICIZER, STABLIZER, FIRE RETARDENT, COLORANT

**Manufacturer:** HILLS (HONGKONG) CO., LD

**Country of Origin:** CHINA

**Country of Destination:** FRANCE

**Addition Information:** RED DECORATION SHEET

**End Use Application:** DECORATION SHEET

### Test Requested:

NF P 92-507:2004 Fire safety-building-interior fitting materials-Classification according to their reaction to fire

**Test Results:** -- See attached sheet --

### Conclusion:

**Classification: M1**

Note: The classes with their corresponding fire performance are given in Annex I.

### Test Period:

Sample Receiving Date : APR.27, 2011

Test Performing Date : APR.27, 2011 TO MAY.10, 2011

Signed for and on behalf of  
 SGS-CSTC Co., Ltd.



Allen Zou  
 Technical Supervisor

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### I. Test conducted

This test was conducted according to NF P 92-507:2004 Fire safety-building-interior fitting materials - Classification according to their reaction. And the test methods as following:

1. NF P92-503:1995 Safety against fire Building materials – Reaction to fire tests Electrical burner test used for flexible materials
2. NF P 92-504:1995 Safety against fire—Building materials—Reaction to fire tests—Flame persistence test and speed of the spread of flame.

### II. Details of classified product

The details of the tested specimen given below have been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

Sample description	Soft PVC sheet
Density	258g/m <sup>2</sup>
Specimen size	About 600 × 180mm
Color	Red

### III. Conditioning

Prior to testing, the sample was conditioned,

In an atmosphere having a temperature of 23±2°C and a relative humidity of 50±5% for 7 days or until constant mass is obtained. The mass is considered as constant when two successive weightings 24 hours apart do not differ by more than 0.1% or 0.1 g (take the highest mass value).

To be continued....

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**AJHG 142609**

### IV. Test results

#### i) NF P92-503:1995 Electrical burner test

Exposed face identification: Back, Orientation: Weft (if applicable)

During the testing, the following details are noted	Sample 1	Sample 2	Sample 3	Sample 4
Hole (Yes/No)	Yes	Yes	Yes	Yes
Max. afterflame time after withdrawal the pilot flame (s)	2	2	2	2
Afterglow time (s)	--	--	--	--
Flaming molten droplets (Yes/No)	No	No	No	No
Non-flaming molten droplets (Yes/No)	No	No	No	No
Flaming debris (Yes/No)	No	No	No	No
Non-flaming debris (Yes/No)	No	No	No	No
White-hot spots with propagation effects (Yes/No)	No	No	No	No

After testing, the following details are noted;	Sample 1	Sample 2	Sample 3	Sample 4
Max. destruction length from the lower edge (cm)	16	17	16	16
Average length (cm)	16.3			
Max. width of the destroyed zones between 450mm and 600mm from the test piece lower edge (cm)	ND	ND	ND	ND
Average width (cm)	ND			

#### ii) NF P 92-504:1995 Flame spread test

	Sample 1	Sample 2	Sample 3	Sample 4
Flame persistence after withdrawal the burner (Yes/No)	No	No	No	No
Flame persistence time (s)	0	0	0	0
Flaming molten droplets (Yes/No)	No	No	No	No
Non-flaming molten droplets (Yes/No)	No	No	No	No

To be continued....

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### Annex I, Requirements

Table 1 Resume of classification for flexible materials which thickness no more than 5mm

Test Items	Criteria of classification				
		Not ignite the wadding	Not ignite the wadding	Ignite the wadding	Ignite the wadding
<b>Test for hot melt materials</b>					
<b>Electrical Burner Test</b> <sup>a)</sup>	No drops	Non-flaming molten droplets	Flaming drops or debris	Non-flaming molten droplets	Flaming drops or debris
Inflammation ≤ 5s	M1	M1	M2	M4	M4
Inflammation > 5s and Average destroyed length <350 mm	M2	M2	M3	M4	M4
Inflammation > 5s and Average destroyed width <90 mm between the 450 mm and 600 mm in length	M3	M3	M4	M4	M4
<b>Flame Spread Test</b> (flame spread <2 mm/s)			M4	M4	M4
<sup>a)</sup> If the materials presented a particular behaviour, the classification also need to refer to Table 3. The details of classification M0 refer to clause 3.3 of NF P 92-507:2004.					

To be continued....

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Table 3 Resume of classification for the materials presented a particular behaviour

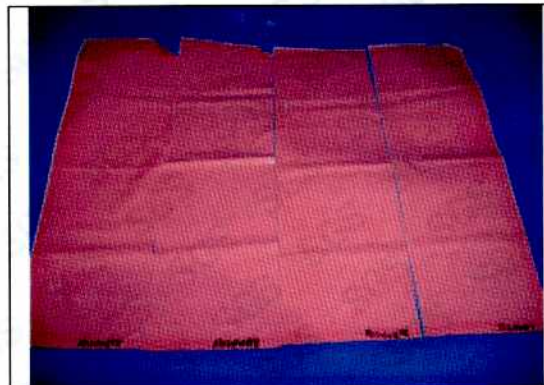
Test Items	Criteria of classification				
		Not ignite the wadding	Not ignite the wadding	Ignite the wadding	Ignite the wadding
<b>Test for hot melt materials</b>					
<b>Flame Persistence Test</b>	No drops	Non-flaming molten drops	Flaming drops or debris	Non-flaming molten drops	Flaming drops or debris
Flame persistence time ≤ 2s	M1	M1	M2	M4	M4
Flame persistence time ≤ 5s	M2	M2	M3	M4	M4
Flame persistence time > 5s and Flame Spread < 2 mm/s	M3	M3	M4	M4	M4

**STATEMENTS:**

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

**Photo Appendix:**



\*\*\*End of Report\*\*\*

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