

No. AJD201305888

Date: SEP.10, 2013

PARFAME ENTERPRISE CO., LTD

7F, NO.64, TA CHENG STREET, TAIPEI, TAIWAN

The following sample(s) was / were submitted and identified on behalf of the client as: Sample Description: #21014 WITH FLAME RESISTANCE (RUCO FLAM PSY-E FINISHING) Type/Style: #21014 F/R Composition: 100% PES

Test Requested:

To determine the flammability (building materials class B1) in accordance with DIN 4102-1 (May 1998) Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing

Test Results: -- See attached sheet --

Conclusion:

The tested sample meets the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1998).

Test Period:

Sample Receiving Date **Test Performing Date**

: AUG.26, 2013 : AUG.26, 2013 TO SEP.06, 2013

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 as per DIN 4102-15:1990 DIN 4102-16:1998 and DIN 4102-1:1998 Clause 6.2. Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials

II. Sample details

Name	#21014 WITH FLAME RESISTANCE (RUCO FLAM PSY-E FINISHING)		
Density / Color	208g/m ² /Black		
Size of sample	1000mmx190mm, 190mmx90mm & 230mmx90mm		

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C,

and a relative humidity of 50 \pm 6 %.

III. Test results

1) "Brandschacht" Test according to DIN 4102-15 &16

Exposed surface: The front face

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Results of "Brandschacht" Test (part 1)						
Line		Unit	Test assemblies No.			
No.			Lengthwise	Widthwise		
1	Specimen fixings according to DIN 4102 part 15, table	/	1	1		
2	Max. flame height above lower sample edge;	cm	40	40		
3	Time ¹⁾	min:s	0:05	0:04		
	Melting/burning through					
4	Time ¹⁾	min:s	0:02	0:02		
	Back of specimen					
5	Flaming/glowing, Time ¹⁾	min:s	0:02	0:02		
6	Discolouring, Time ¹⁾	min:s	0:01	0:01		
	Burning droplets					
7	Begin 1)	min:s	0:03	0:03		
	Amount		/	/		
8	Specimen material falling off in separate droplets		/	/		
9	Specimen material falling off continuously		\checkmark	\checkmark		

To be continued...

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Results of "Brandschacht" Test (part 2)						
Line	Unit		Test assemblies No.			
No.			Lengthwise	Widthwise		
	Burning parts		No	No		
10	Begin 1)	min:s	/	/		
11	Parts of sample falling off separately		/	/		
12	Parts of sample falling off continuously		/	/		
13	Duration of continued combustion on mesh base (max.)	min:s	No	No		
	Burner flame impairment by dripping/falling material		No	No		
14	Time ¹⁾	min:s	/	/		
	Premature ending of test	ing of test		/		
15	End of burning at specimen ¹⁾	min:s	/	/		
16	Time when test terminated (if applicable) $^{1)}$	min:s	/	/		
	Burning after end of test		No	No		
17	Duration	min:s	/	/		
18	Number of specimens		/	/		
19	Front of specimen		/	/		
20	Back of specimen		/	/		
21	Height of flame	cm	/	/		
	Glowing after end of test		No	No		
22	Duration	min:s	/	/		
23	Number of specimens		/	/		
24	Front of specimen		/	/		
25	Back of specimen		/	/		
26	Top half of specimen		/	/		
27	Bottom half of specimen		/	/		

To be continued...

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	Results of "Bran	dschacht" T	est (part 3)				
Line		Unit		Test assemblies No.			
No.		Unit			Lengthwise Widthwise		
	Residual length						
28	28 Single results		63 63	64 62	62 62	61 63	
29	Average of the single results	of the single results cm		63 62 62			
	Smoke temperature						
30	Max. of average	°C		143		137	
31	Time ¹⁾	min:	s 1	10:00		10:00	
Note: 1	⁾ time from start of testing		I				
2) Normal Flammability Test according to DIN 4102-1 Clause 6.2							
<u>Flame</u>	<i>Flame application:</i> [$$] bottom edge ignition, [] surface ignition						
[1]	Lengthwise (if applicable)			r	1		
Speci	men No.	1	2	3	4	5	
Reaching the measuring mark within 20 seconds		No	No	No	No	No	
Self e	Self extinguishing of the flame (s)		15	15	15	15	
Max. flame height (cm)		6	7	7	8	9	
End of afterflaming (s)		15	15	15	15	15	
End of afterglowing (s)		15	15	15	15	15	
Molten dripping		No	No	No	No	No	
Smoke developments (visual impression)		Slight					
[1	Widthwise (if applicable)						
Specimen No.		1	2	3	4	5	
Reac	Reaching the measuring mark within 20 seconds		No	No	No	No	
Self extinguishing of the flame (s)		15	15	15	15	15	
Max. flame height (cm)		8	6	7	7	9	
End of afterflaming (s)		15	15	15	15	15	
End of afterglowing (s)		15	15	15	15	15	
Molten dripping		No	No	No	No	No	
Smok	e developments (visual impression)			Slight			

To be continued...

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All timings are from start of testing

Criteria for classification for Class B1 (DIN 4102-1 Clause 6.1.2)

All materials, except flooring, may be classed as B1 materials if they met,

- a) Pass DIN 4102-16 "brandschacht" test if
 - 1) The mean value for the residual length of each specimen is at least 15 cm, and no individual values are lower than 0 cm;
 - 2) The mean effluent temperature does not exceed 200 $^\circ\!\!\mathrm{C}$ in any test;
 - 3) The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.
- b) Pass DIN 4102-1 Clause 6.2.3 Ignitability Test if,

For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

STATEMENTS:

This test report does not replace any mandatory certification of the product that may be required.

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 and smoke hazard of the product in use.

Photo Appendix:



End of Report

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