



STC Test Report

Date: 2012-07-23

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(DUPLICATE)

No.: ST159545

Applicant(Code:JSS001) : 江苏舜天汉唐贸易有限公司
江苏省南通市人民中路润友大厦17层

Attn: Zhao Lele

Description of Sample(s) : One (1) piece of submitted sample said to be
Inherent flame retardant satin
Composition: 100% Polyester
Color: Black
Style No.: Inherent flame retardant satin
End use: Curtain
Country of Origin: China
Country of Destination: Holland



Date Sample(s) Received : 2012-07-23

Date Tested : 2012-07-23 to 2012-08-01

Investigation Requested : Selected test(s) as detailed herein.

Conclusions : The submitted sample compiled with the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1988).



DING Jiawei, Peter
Textile and Materials Department
For and on behalf of
STC(Shanghai) Company Limited

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

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TEST RESULTS:

Flammability of Building Materials and Components

Ref.: DIN 4102-1:1998

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

Sample details:

Surface color:	Black
Area density:	About 179g/m ²
Conditioning of test specimen:	T: (23±2)°C; R.H.: (50±6)%, ≥7days.
Size of sample:	1000mm×190mm & 190mm×90mm

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

Exposed surface: The front face

Test Results

Results of “Brandschacht” Test (part 1)				
Line No.		Unit	Test assemblies No.	
			Lengthwise	Widthwise
1	Specimen fixings according to DIN 4102 part 15, table	/	1	1
2	Max. flame height above lower sample edge;	cm	30	30
3	Time ¹⁾	min:s	0:07	0:07
4	<u>Melting/burning through</u> Time ¹⁾	min:s	0:04	0:04
5	<u>Back of specimen</u> Flaming/glowing, Time ¹⁾	min:s	0:04	0:05
6	Discolouring, Time ¹⁾	min:s	0:03	0:04
7	<u>Burning droplets</u> Begin 1)	min:s	No	No
	<u>Amount</u>		/	/
8	Specimen material falling off in separate droplets		/	/
9	Specimen material falling off continuously		/	/

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TEST RESULTS:

Results of "Brandschacht" Test (part 2)					
Line No.	Unit	Test assemblies No.			
		Lengthwise		Widthwise	
10	Burning parts	No		No	
11	Begin 1	/		/	
12	Parts of sample falling off separately	/		/	
13	Parts of sample falling off continuously	/		/	
14	Duration of continued combustion on mesh base (max.)	No		No	
15	<u>Burner flame impairment by dripping/falling material</u>	/		No	
16	Time ¹⁾	/		/	
17	<u>Premature ending of test</u>	/		/	
18	End of burning at specimen ¹⁾	/		/	
19	Time when test terminated (if applicable) ¹⁾	/		/	
20	<u>Burning after end of test</u>	No		No	
21	Duration	/		/	
22	Number of specimens	/		/	
23	Front of specimen	/		/	
24	Back of specimen	/		/	
25	Height of flame	/		/	
26	<u>Glowing after end of test</u>	No		No	
27	Duration	/		/	
28	Number of specimens	/		/	
29	Front of specimen	/		/	
30	Back of specimen	/		/	
31	Top half of specimen	/		/	
32	Bottom half of specimen	/		/	
33	<u>Residual length</u>				
34	Single results	75	76	76	77
35		76	77	79	78
36	Average of the single results	76		77.5	
37	<u>Smoke temperature</u>				
38	Max. of average	106		107	
39	Time ¹⁾	10:00		10:00	

Note: ¹⁾ time from start of testing

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TEST RESULTS:

2) Normal Flammability Test according to DIN 4102-1 Clause 6.2

Flame application: bottom edge ignition

Test Results

Lengthwise

Specimen No.	1	2	3	4	5
Reaching the measuring mark within 20 seconds	No	No	No	No	No
Self extinguishing of the flame (s)	15	15	15	15	15
Max. flame height (cm)	5	5	4	5	6
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				

Widthwise

Specimen No.	1	2	3	4	5
Reaching the measuring mark within 20 seconds	No	No	No	No	No
Self extinguishing of the flame (s)	15	15	15	15	15
Max. flame height (cm)	5	4	5	4	5
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				

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 15cm, and no individual values are lower than 0 cm;
- 2) The mean effluent temperature does not exceed 200°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.

***** End of Test Report *****

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