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

Sample Description : Pollytex Black Back

Color : WHITE

Density : 260GSM

Thickness : 0.46MM

Composition : 100% POLYESTER

Country of Destination : EUROPE

Addition Information : MAX WIDTH: 320CM

End Use Application : DISPLAY/FRAME

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 –

Classification : The tested sample meets class B1 building materials requirements of DIN 4102-1 (May 1998).

Test Period :

Sample Receiving Date	:	OCT.11, 2016
Test Performing Date	:	OCT.11, 2016 TO OCT.25, 2016

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

Allen Zou
Technical Manager

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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, and Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials.

II. Sample details

General description / Color	Pollytex Black Back
Density	About 268 g/m^2
Size of sample	1000mm×190mm & 190mm×90mm

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 ℃, and a relative humidity of 50 ± 6 %.

III. Test results

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

Exposed surface: The front face

Results of “Brandschacht” Test (part 1)				
Line No.		Unit	Test assemblies No.	
			Lengthwise	Widthwise
1	Specimen fixings according to DIN 4102 part 15, table	/	/	/
2	Max. flame height above lower sample edge;	cm	50	50
3	Time [1)]	min:s	0:12	0:15
	Melting/burning through			
4	Time [1)]	min:s	0:03	0:04
	Back of specimen			
5	Flaming/glowing, Time [1)]	min:s	0:02	0:03
6	Discolouring, Time [1)]	min:s	0:05	0:08
	Burning droplets		/	/
7	Begin 1)	min:s	0:10	0:15
	Amount		/	/
8	Specimen material falling off in separate droplets		√	√
9	Specimen material falling off continuously		/	/

To be continued…

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Results of "Brandschacht" Test (part 2)				
Line No.		Unit	Test assemblies No.	
			Lengthwise	Widthwise
	Burning parts		/	/
10	Begin 1)	min:s	0:21	0:27
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		/	/
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		/	/

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Results of "Brandschacht" Test (part 3)						
Line No.		Unit	Test assemblies No.			
			Lengthwise		Widthwise	
	Residual length					
28	Single results	cm	60	63	61	62
			58	59	63	65
29	Average of the single results	cm	60.0		62.8	
	Smoke temperature					
30	Max. of average		147.2		143.7	
31	Time [1)]	min:s	08:15		08:26	

Note: [1)] time from start of testing

*Reduction in number of test (DIN 4102 Part 16, clause 5.2)

Class B1 materials:

If the residual length measured after the first test is 45cm or greater, further tests are not required.

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

Flame application: [ ] bottom edge ignition, [ ] surface ignition

Parameter	Lengthwise					Crosswise				
	1	2	3	4	5	6	7	8	9	10
Reaching the measuring mark within 20 seconds(Yes/No)	No	No	No	No	No	No	No	No	No	No
Self extinguishing of the flame (s)	15	15	15	15	15	15	15	15	15	15
Max. flame height (cm)	4	6	5	4	5	4	4	5	5	4
End of afterflaming (s)	15	15	15	15	15	15	15	15	15	15
End of afterglowing (s)	15	15	15	15	15	15	15	15	15	15
Molten dripping(Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight					Slight				

All timings are from start of testing.

To be continued…

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IV. DIN 4102-1:1998 Criteria for classification

1) All materials, except flooring, may be classed as B1 materials if they meet the following requirements a) and b):

a) The test using the 'Brandschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if

– The mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause 9.1 of DIN 4102-16) of each specimen is at least 15 cm and no individual values are lower than 0 cm,

– The mean effluent temperature does not exceed 200 ℃ in any test,

– The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1: 1998 sub-clause 6.2.3 Ignitability Test if

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

2) Materials may be classed as B2 materials if they pass the ignitibility test specified in DIN 4102-1: 1998 subclause 6.2.5.

For each specimen, flaming doesn't reach the gage mark (150mm marks) within 20s after flame application.

3) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as B3 materials.

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.

To be continued…

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Photo Appendix:



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*** End of Report ***

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