

HANDE MANUFACTURING (CHINA) CO.LTD.
 NO.161 YAOTIANHE STREET, YONGSHUN AVENUE, YONGHE ECONOMIC ZONE, GETDD,
 GUANGZHOU,CHINA

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

Sample Description : SUNESSE SUNSCREEN FABRIC
 Sample Receiving Date : Dec.03, 2018
 Test Performing Date : Dec.03, 2018 to Dec.12, 2018

Test Result Summary

Test(s) Requested	Result(s)
DIN 4102-1:1998-05	The sample tested met the requirements of class B1

Summary:

1. For further details, please refer to the following page(s).

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



Ivette Zhang
 Approved signatory



SGS-CSTC Inspection & Testing Services Co., Ltd.
 Shunde Branch Harbin

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TESTS AND RESULTS

Test Conducted:

These tests are conducted in DIN 4102-1:1998-05 Clause 6 Class B building materials according to the application.

Conditioning:

Temperature: (23±2)°C; Relative Humidity: (50±5)%; Duration:192h;

Test Requirement:

All materials, except flooring, may be classed as B1 materials if they
 – withstand the test specified in DIN 4102-16 using the 'Brandschacht' apparatus specified in DIN 4102-15, and
 – meet the requirements for class B2 materials.

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 °C in any test,
- the requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

Test Results:

1.DIN 4102-1 B2 Test Result

Parameter	Results									
	Bottom edge ignition					Surface ignition				
	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Specimen ignition (Yes/No)	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Ignition ceased time(s)	-	-	-	-	-	-	-	-	-	-
If flame tip reached 150mm line/40,190mm line(Yes/No)	No	No	No	No	No	No	No	No	No	No
Ignition time to reached 150mm line/40,190mm line(s)	-	-	-	-	-	-	-	-	-	-
Filter paper ignition (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments	Slight					Slight				

Remark: *--The specimen was ignited but self-extinguished after removed the burner.

Class B2 Test requirement:

This test shall be deemed passed if, for any of the five specimens tested, flaming does not reach the gauge mark within 20 seconds after flame application, either with bottom edge ignition or surface ignition.

Sub-conclusion: Pass



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2.Additional DIN4102-16 Test Result

Group 1:

Parameter	Results				
	#1	#2	#3	#4	Average value
Remaining length (cm)	65	60	60	63	62
Max. flue gas temperature (°C)	85				
After flame / after glow (s)	0				
Other observation	Charring				

Remark: According to DIN 4102-16 Clause 5.2, if the residual length measured after the first test is 45cm or greater, further tests are not required.

Sub-conclusion: Pass

Conclusions:

The sample tested met the requirements of class B1 of DIN 4102-1:1998-05 Clause 6.

SAMPLE INFORMATION AND PICTURES

Area Density: About 433g/m²



End of Report

