



中国认可  
国际互认  
检测  
TESTING  
CNAS L4743

## Test Report

No. AJFS2111010260FF-01 Date: DEC.17, 2021

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SOYANG TECHNICAL TEXTILE (ZHEJIANG) CO., LTD

NO.36 JINNIU ROAD, JIANSAN DISTRICT, HAINING CITY, ZHEJIANG PR., CHINA

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**Sample Name:** POPULAR FLAG (POLYESTER)

**SGS Ref No.:** CZHL2111007916OT

**Style No.:** ST-110

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

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### Test Requested:

DIN 4102-1:1998-05 Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing, Class B1 materials---For all materials except flooring.

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

**Classification:** The tested sample **meets** class **B1** materials requirements of DIN 4102-1:1998-05.

### Test Period:

Sample Receiving Date : NOV.30, 2021

Test Performing Date : NOV.30, 2021 TO DEC.15, 2021

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Allen Zou

Approved Signatory



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Results of "Brandschacht" Test (part 2)			
Line No.	Unit	Test direction	
		Lengthwise	Widthwise
10	<u>Burning parts</u>	No	No
	Begin 1)	/	/
	Parts of sample falling off separately	/	/
12	Parts of sample falling off continuously	/	/
13	Duration of continued combustion on mesh base (max.)	No	No
14	<u>Burner flame impairment by dripping/falling material</u>	No	No
	Time <sup>1)</sup>	/	/
	<u>Premature ending of test</u>	/	/
15	End of burning at specimen <sup>1)</sup>	/	/
16	Time when test terminated (if applicable) <sup>1)</sup>	/	/
17	<u>Burning after end of test</u>	No	No
	Duration	/	/
	Number of specimens	/	/
	Front of specimen	/	/
	Back of specimen	/	/
21	Height of flame	/	/
22	<u>Glowing after end of test</u>	No	No
	Duration	/	/
	Number of specimens	/	/
	Front of specimen	/	/
	Back of specimen	/	/
	Top half of specimen	/	/
	Bottom half of specimen	/	/

To be continued...



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Results of “Brandschacht” Test (part 3)							
Line No. Unit			Test direction				
			Lengthwise		Widthwise		
28	<u>Residual length</u>		/		/		
	Single results	cm	51	54	52	51	
			53	54	49	53	
29	Average of the single results		cm	53		51	
	<u>Smoke temperature</u>			/		/	
30	Max. of average		°C	150.6		149.7	
31	Time <sup>1)</sup>		min:s	04:21		03:59	

Note: <sup>1)</sup> 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) Ignitibility test according to DIN 4102-1 Clause 6.2.5

Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Crosswise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	0	0	0	0	0	0	0	0	0	0
Max. flame height (cm)	7	6	7	7	6	7	7	7	6	7
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight					Slight				

Note: NA---Not applicable

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 °C 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 6.2.5 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 ignitability 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 declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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:



SGS authenticate the photo on original report only

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