

GUANGZHOU SUN-DEC CRAFT LTD

NO.4 XIANGDI 4TH STREET YONGNING STREET ZENGCHENG DISTRICT GUANGZHOU

Sample Description : PLASTIC CHRISTMAS BALL

The above sample(s) data and information 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.

Sample Receiving Date : May 09,2025

Testing Period : May 09,2025 to May 23,2025

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

Test result(s) : See attached sheet

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

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

Ada

Ada Liu
Approved signatory



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I. Test conducted

This test was conducted as per DIN 4102-15:1990 Fire behaviour of building materials and building components – ‘Brandschacht’ apparatus, DIN 4102-16:2021 Fire behaviour of building materials and building components – ‘Brandschacht’ tests and DIN 4102-1:1998-05 Clause 6.2.5 and Classification according to DIN 4102-1:1998-05 Clause 6.1 Class B1 materials.

II. Sample details

General description	Plastic Christmas ball
Color	White
Exposed (tested) surface	One surface

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 ± 5 %.

Installation Information

The sample was directly mechanically fixed on the sample holder without substrate.

III. Test results

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

Results of “Brandschacht” Test				
Line No.	Unit	Test assemblies No.		
		1	/	/
1	Specimen fixings according to DIN 4102 part 15, table	-	/	
2	Max. flame height above lower sample edge;	cm	43	
3	Time ¹⁾	min:s	01:45	
4	<u>Melting/burning through</u> Time ¹⁾	min:s	00:36	
5	<u>Back of specimen</u> Flaming/glowing, Time ¹⁾	min:s	00:36	
6	Discolouring, Time ¹⁾	min:s	00:10	
7	<u>Burning droplets</u> Begin ¹⁾ <u>Amount</u>	min:s	00:58 /	

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Results of "Brandschacht" Test				
Line No.	Unit	Test assemblies No.		
		1	/	/
8	Specimen material falling off in separate droplets	/		
9	Specimen material falling off continuously	/		
<u>Burning parts</u>		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	/		
<u>Burner flame impairment by dripping/falling material</u>		No		
14	Time ¹⁾ min:s	/		
<u>Premature ending of test</u>		/		
15	End of burning at specimen ¹⁾ min:s	/		
16	Time when test terminated (if applicable) ¹⁾ min:s	/		
<u>Burning after end of test</u>		No		
17	Duration min:s	/		
18	Number of specimens	/		
19	Front of specimen	/		
20	Back of specimen	/		
21	Height of flame cm	/		
<u>Glowing after end of test</u>		/		
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	/		
<u>Smoke density</u>		/		
28	≤ 400 %×min	/		



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Results of "Brandschacht" Test					
Line No.	Unit	Test assemblies No.			
		1	/	/	/
29	> 400 %×min	/			
30	<u>Residual length</u>	/			
	Single results	48	51		
		46	48		
31	Average of the single results	48			
32	<u>Smoke temperature</u>	/			
	Max. of average	90			
	Time ¹⁾	02:11			

Note: ¹⁾ time from start of testing

*Reduction in number of test (DIN 4102 Part 16, clause 6.2)

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

a) Surface ignition

Fire application time: 15s

Lengthwise:

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



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b) Edge ignition

Fire application time: 15s

Lengthwise:

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

Note: NA---Not applicable

IV. Conclusion

DIN 4102-1 B1

V. 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 10.1 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:



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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.

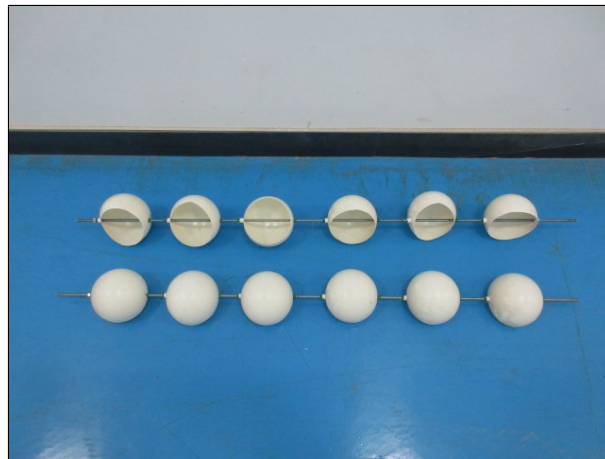
STATEMENTS:

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.

Photo Appendix:



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End of Report



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