

CHEUNG KEE CANVAS LTD
G/F,352,RECLAMATION STREET,KOWLOON,HONG KONG

Sample Description : PVC TARPAULIN
Item No. : CK 2009 NOISE BARRIER

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : SDFS2301000306FF
Sample Receiving Date : Jan 11, 2023
Test Performing Date : Jan 11, 2023 to Jan 18, 2023
Test Performed : Selected test(s) as requested by applicant

Test Result Summary

| No. | Test(s) Requested | Result(s) | Comments |
|--|---|--------------------|----------|
| 1 | BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014 Fire tests on building materials and structures Part 7. Method of test to determine the classification of the surface spread of flame of products. | See attached sheet | / |
| For further details, please refer to the following page(s) | | | |

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



Peter Zhao
Authorized Signatory

scan to see the report



SDHL2301000571HI



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I. Test conducted

This test was performed in accordance with the procedure specified in BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014 Fire tests on building materials and structures Part 7. Method of test to determine the classification of the surface spread of flame of products.

II. Sample details

| | |
|--------------------|-------------|
| Sample description | PVC Sheet |
| Thickness | 1 mm |
| Color | Grey |
| Specimen size | 885mm×270mm |

III. Test details

| | |
|----------------------------|--|
| Conditioning of specimens: | Prior to testing, the sample was conditioned to constant mass at a temperature of(23 ± 2)°C, and a relative humidity of (50 ± 10)%, and maintained in this condition until required for testing. |
| Exposed Face: | Marked surface |
| Mounting of specimens: | Unexposed face of the specimen placed directly on, and in direct contact with, a backing board without any adhesion or mechanical fixing. |

Irradiance along horizontal reference line on the calibration board

| Distance along reference line from inside edge of specimen holder | Irradiance kW/m ² | | |
|---|------------------------------|-----------|------|
| | mm | Specified | Min. |
| 75 | 32.5 | 32.0 | 32.7 |
| 225 | 21.0 | 20.5 | 21.5 |
| 375 | 14.5 | 14.0 | 15.0 |
| 525 | 10.0 | 9.5 | 10.5 |
| 675 | 7.0 | 6.5 | 7.5 |
| 825 | 5.0 | 4.5 | 4.6 |



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IV. Test results

| Specimen No. | 1 | 2 | 3 | 4 | 5 | 6 |
|--|---|---------------|---------------|---------------|---------------|---------------|
| Distance (mm) | Time to travel to indicated distance (minutes :seconds) | | | | | |
| 75 | 0:47 | 0:40 | 0:48 | 0:50 | 0:40 | 0:51 |
| 165 | 0:56 | 0:51 | 0:59 | 0:57 | 0:55 | 1:11 |
| 190 | 1:30 | 1:20 | 1:40 | 1:44 | 1:23 | 1:54 |
| 215 | -- | -- | 2:24 | 2:52 | 2:36 | 3:01 |
| 240 | -- | -- | 3:49 | 4:28 | -- | -- |
| 265 | -- | -- | -- | -- | -- | -- |
| 290 | -- | -- | -- | -- | -- | -- |
| 375 | -- | -- | -- | -- | -- | -- |
| 455 | -- | -- | -- | -- | -- | -- |
| 500 | -- | -- | -- | -- | -- | -- |
| 520 | -- | -- | -- | -- | -- | -- |
| 600 | -- | -- | -- | -- | -- | -- |
| 675 | -- | -- | -- | -- | -- | -- |
| 710 | -- | -- | -- | -- | -- | -- |
| 750 | -- | -- | -- | -- | -- | -- |
| 785 | -- | -- | -- | -- | -- | -- |
| 825 | -- | -- | -- | -- | -- | -- |
| Maximum distance traveled at 1.5 minutes (mm) | 190 | 195 | 180 | 170 | 190 | 170 |
| Maximum distance traveled during the whole test (mm) | 200 | 210 | 260 | 250 | 220 | 200 |
| Time to reach maximum distance traveled | 1:50 | 2:00 | 5:12 | 6:02 | 4:00 | 3:50 |
| Observations during test | Flaming drops | Flaming drops | Flaming drops | Flaming drops | Flaming drops | Flaming drops |

Note: 1. "--" Not reached the reference line

2. Six specimens are usually tested. If the test on any specimen is deemed to be invalid, as defined in the standard, it is permissible for up to a maximum of nine specimens to be tested in order to obtain the six valid test results.

The classification limits specified in BS 476-7:1997+AC: 2014 are given in Appendix 1.



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Criteria for classification:

If the prefix “D” or suffix “R” or “Y” is included in the classification, this indicates that the results should be treated with caution. An explanation of the reason for prefix and suffixes is given in Appendix 2

Appendix 1 Classification of spread of flame

| Classification | Spread of flame at 1.5 min | | Final spread of flame | |
|----------------|----------------------------------|--------------------------------------|-----------------------|--------------------------------------|
| | Limit (mm) | Limit for one specimen in sample(mm) | Limit (mm) | Limit for one specimen in sample(mm) |
| Class 1 | 165 | 165+25 | 165 | 165+25 |
| Class 2 | 215 | 215+25 | 455 | 455+45 |
| Class 3 | 265 | 265+25 | 710 | 710+75 |
| Class 4 | Exceeding the limits for class 3 | | | |

Appendix 2 Explanation of prefix and suffixes which may be added to the classification

1. A suffix R is added to the classification if more than six specimens are required in order to obtain six valid test results (e.g. class 2R).
2. A prefix D is added to the classification of any product which does not conform to the surface characteristics specified in the standard and has therefore been tested in a modified form (e.g. class D3).
3. A suffix Y shall be added to the classification if any softening and/or other behaviour that may affect the flame spread occurs.

Classification: In accordance with the class definitions given in BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014, the tested sample is classified as **Class 2Y**.



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Statements:

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 smoke hazard of the product in use.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

The specimen was supplied by the sponsor and SGS-CSTC SHUNDE Branch was not involved in any selection or sampling procedure.

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Photo Appendix:



End of Report



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