

Test Report

No.: QDHL1812026657OT

Date: JAN.16,2019

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

Sample Description : PVC610GSM FABRIC

SGS Ref. No. : QDIN1812007071SC/ AJFS1901000175FF/AJFS1812012218FF

Buyer

Sample Receiving Date : JAN.15,2019

Testing Period : JAN.15,2019 TO JAN.16,2019

Test result(s) : For further details, please refer to the following page(s)

Remark: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Approved by:



Lab Manager

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Tear Strength	DIN 53363:2003	See result	/
2	Tensile Test	EN ISO 1421:1998	See result	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo:



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1. Test Item: Tear Strength

Sample Description: See photo

Test Method: DIN 53363:2003

Test Condition:

Specimen thickness: 0.469mm

Testing speed: 100mm/min

Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result	
Tear Strength	Longitudinal Direction	562N/mm
	Transverse Direction	726N/mm

Note: Test specimens were cut from the sample.

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z010	POL-PL-E005	2018.09.05	2019.09.04

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2. Test Item: Tensile Test

Sample Description: See photo

Test Method: EN ISO 1421:1998

Test Condition:

Testing speed: 100mm/min

Grip separation: 200mm

Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result	
Tensile Strength	Longitudinal Direction	2954N
	Transverse Direction	1934N

Note: Test specimens were cut from the sample.

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Material Testing Machine	3367	POL-PL-E027	2018.05.22	2019.05.21

Note: The test results were extracted from report No. QDHL1812026120OT.

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I. Test conducted

This test is conducted according to CAN/ULC-S109-14 Flame Tests of Flame-Resistant Fabrics and Films clause 4.3 SMALL-FLAME TEST.

Cleaning and weathering procedure: None

Conditioning: Prior to testing, the sample was conditioned half an hour at $105^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

II. Details of product

Sample Description	PVC
Color	White
Area density	About 598 g/m^2
Products configuration	Single layer
Specimen size	250mm×90mm

III. Test Results

Specimen No.		After flame time (s)	Afterglow time (s)	Damage length (mm)	Drops burning time (fall to the floor)
Lengthwise	1	0	0	50	0
	2	1.7	0	82	0
	3	1.1	0	57	0
	4	2.4	0	81	0
	5	0	0	66	0
Widthwise	6	0	0	73	0
	7	0	0	88	0
	8	2.8	0	70	0
	9	3.1	0	73	0
	10	1.1	0	79	0
Average		1.2	0	72	0

Conclusion: [☒] Meets, [☐] Does not meet

Small flame test performance requirements (Clause 6.1&6.2):

- 1). Portions or residues of the material which break or drip from the test specimens shall not continue to flame for more than 2 s on the floor of the test cabinet.
- 2). The vertical spread of flame and afterglow (smouldering combustion) on the material as indicated by the damaged length shall not exceed 165 mm of maximum average damaged length (10 specimens), and 190 mm of maximum damaged length for any specimen.
- 3). Fabrics or films for interior uses shall comply with the foregoing requirements after being subjected to ten cycles of the specific type or types of cleaning recommended by the manufacturer. Material indicated as being suitable for laundering or dry cleaning shall be subjected to the applicable requirements in Subsection 7.2, Laundering, and Subsection 7.3, Dry Cleaning.
- 4). Fabrics or films intended for exposure to the weather shall comply with the foregoing requirements after being subjected to the requirements in Subsection 7.4, Water Leaching, Subsection 7.5, Scrubbing, and Subsection 7.6, Accelerated Weathering.

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 fire 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

Note: The test results were extracted from report No. QDHL1901000153OT .

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I. Test Conducted

This test was conducted in accordance with test method 1 of NFPA 701:2015 Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

II. Details of tested sample

Sample description / Color	PVC / White
Area density	About 601 g/m ²
Products configuration	Single Layer
Size of sample *	150mm × 400mm

* With the length parallel to the lengthwise direction of the material

III. Conditioning and cleaning procedure

Cleaning procedure: none

Prior to testing, the sample was:

[☒] Dried in oven at 105°C±3°C for 30 minutes.

[☐] Conditioned at 20°C±5°C for 24 hours.

IV. Test results

Specimen No.	Mass before test (g)	Mass after test (g)	Mass loss (%)	After flame time (s)	Burning time on floor (s)
1	34.73	34.14	1.70	0	0
2	34.50	33.66	2.43	0	0
3	34.75	34.07	1.96	0	0
4	34.82	33.58	3.56	0	0
5	34.63	33.93	2.02	0	0
6	34.80	33.50	3.74	0	0
7	34.59	33.79	2.31	0	0
8	34.62	33.64	2.83	0	0
9	34.90	34.08	2.35	0	0
10	34.88	33.52	3.90	0	0
Mean	34.72	33.79	2.68	0	0

SD =0.79 3SD =2.37 Mean + 3SD =5.05

SD – Standards deviation

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Observations:

Vigorousness of burning	No
Material molten dripping	No
Odor smoke	Yes

Criteria for test method 1 (Chapter 10):

1. Fragments or residues of specimens that fall to the floor of the test chamber shall not continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimen.
2. The average weight loss of the 10 specimen in a sample shall be 40 percent or less.
3. No individual specimen's percent mass loss shall deviate more than 3 standard deviations from the mean for the 10 specimens.
4. When a retest is required, no individual specimen's percent mass loss in the second set of specimens shall deviate from the mean value by more than 3 standard deviations calculated for the second set.
5. When a sample does not demonstrate passing performance in accordance with all of the conditions indicated above, the material shall be recorded as having failed Test Method 1.

Note: The test results were extracted from report No. QDHL1812026126OT.

Photo Appendix:



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SGS authenticate the photo on original report only

End of Report