

Test Report No. AJFS2102000995FF Date: MAR.03, 2021 Page 1 of 6

CHENGDU FORESIGHT COMPOSITE CO., LTD

FOUR GROUPS, GUANGMING VILLAGE, LONGTAN TOWNSHIP, CHENGHUA DISTRICT, CHENGDU CITY, SICHUAN PROVINCE, P.R. CHINA

The following sample(s) 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. <u>Sample Description</u>: PVC FABRIC MATERIAL <u>Color</u>: YELLOW <u>Density</u>: 1.43 <u>Thickness</u>: 0.46mm <u>Style/Item No.</u>: 600gsm FLEXIBLE VENTIALTION DUCT FABRIC <u>Composition</u>: PVC POLYESTER FIBER

Test Requested:

EN 13501-1:2018 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests

Test Results: -- See attached sheet --

<u>Test Period</u>: Sample Receiving Date Test Performing Date

FEB.03, 2021 FEB.03, 2021 TO FEB.27, 2021

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

Allen Zou Lab Manager





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I. Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building

elements - Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- 1. EN 13823:2010+A1:2014 Reaction to fire tests for building products Building products excluding floorings exposed to the thermal attack by a single burning item.
- 2. EN ISO 11925-2: 2010+Corl:2011 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame Part 2: Single-flame source test.

II. Details of classified product

a) Nature and end use application

The product "PVC fabric" is defined as a decorative sheet. Its classification is valid for the following end use application: Tunnel ventilation duct.

b) Description

Description	PVC fabric
Color	Yellow
Sample size	EN 13823: 1500mm×1000mm & 1500mm×495mm EN ISO 11925-2: 250mm×90mm
Mass per unit area	584 g/m ²

Mounting and fixing:

The test specimens are fixed mechanically in the trolley, champed at the top and the bottom. No joint in the long wing of the specimens.

III. Test results

Test method	Parameter	Number of tests	Results
	FIGRA _{0.2MJ} (W/s)		29.1
	FIGRA _{0.4MJ} (W/s)		29.1
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
EN 13823	THR _{600s} (MJ)	3	1.8
	SMOGRA (m ² /s ²)		14.0
	TSP _{600s} (m ²)		23.3
	Flaming particles or droplets (Yes/No)		No

To be continued...



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Test method	Parameter	Specimen number	Results
EN ISO 11925-2 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	12	No
	Ignition of the filter paper (Yes/No)		No

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

b) Classification

The product, PVC fabric, in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production			Flaming	droplets
В	_	S	1	,	d	0

Reaction to fire classification: B-s1, d0

Remark: The classes with their corresponding fire performance are given in annex A.

c) Field of application

This classification is valid for the following end use applications:

--- With mechanically fixing

--- No joint

This classification is valid for the following product parameters:

--- Characteristics as described in section II b) of this test reports.

Statement:

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.

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.

To be continued...



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Warning:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

s Test method(s)		Classification criteria	Additional classification	
EN ISO 1182 ª	and	⊿ <i>T</i> ≤30℃, and ⊿ <i>m</i> ≤50%, and t _f =0(i.e. no sustained flaming)	-	
EN ISO 1716		$PCS\leq2.0MJ/kg^{a}$ and $PCS\leq2.0MJ/kg^{bc}$ and $PCS\leq1.4MJ/m^{2d}$ and $PCS\leq2.0MJ/kg^{e}$	-	
EN ISO 1182 ^a or		<i>∆</i> T≤50°C, and <i>∆ m</i> ≤50%, and tr≤20 s	-	
EN ISO 1716	and	$PCS \le 3.0 \text{MJ/kg}^{\text{a}}$ and $PCS \le 4.0 \text{MJ/m}^2$ band $PCS \le 4.0 \text{MJ/m}^2$ dand $PCS \le 3.0 \text{MJ/kg}^{\text{e}}$ \bullet \bullet	-	
EN 13823		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
EN 13823	and	<i>FIGRA</i> ≤120W/s and <i>LFS</i> <edge and<br="" of="" specimen=""><i>THR</i>_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
EN ISO 11925-2 ⁱ Exposure =30s		within 60s <i>F</i> s≤150mm		
EN 13823	and	<i>FIGRA</i> ≤250W/s and <i>LFS</i> <edge and<br="" of="" specimen=""><i>THR</i>600s≤15MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
EN ISO 11925-2 ⁱ Exposure=30s		<i>F</i> s≤150mm within 60 s		
EN 13823	and	<i>FIGRA</i> ≤750W/s	Smoke production ^f and	
Exposure=30s		<i>F</i> s≤150mm within 60 s	Flaming droplets/particles ^g	
EN ISO 11925-2 ⁱ Exposure =15s		<i>F</i> s≤150mm within 20 s	flaming droplets/particles h	
	EN ISO 1182 ^a EN ISO 1716 EN ISO 1716 EN ISO 1182 ^a or EN ISO 1716 EN 13823 EN 1	EN ISO 1182 ^a and EN ISO 1716 EN ISO 1716 EN ISO 1182 ^a or EN ISO 1716 EN ISO 1716 EN 13823 and EN 13823 and EN ISO 11925-2 ⁱ Exposure =30s EN 13823 and EN ISO 11925-2 ⁱ Exposure=30s EN 13823 and EN ISO 11925-2 ⁱ	Δ TS30°C, and Δ m<50%, and t=0(i.e. no sustained flaming)EN ISO 1716PCS<2.0MJ/kg a and PCS<2.0MJ/kg	

To be continued...



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F	EN ISO 11925-2 ⁱ Exposure = 15 s	<i>F</i> s>150mm within 20 s		
 ^b For a ^c Alterristication ^d For a ^e For th ^f s1 = 3 ^g d0 = d1 = d2 = lgnition ^h Passe Fail = ⁱ Unde 	any external non-substantial matively, any external non-su- fies the following criteria of E and s1, and d0. any internal non-substantial of he product as a whole. SMOGRA $\leq 30m^2/s^2$ and TS No flaming droplets/ particles not flaming droplets/ particles not d0 or d1. on of the paper in EN ISO 1 s = no ignition of the paper (r = ignition of the paper (d2 classical)	,	s products. $CS ≤ 2,0 \text{ MJ/m}^2$, provided $_FS < edge of specimen, a products. 80m^2/s^2 and TSP_{600s} ≤ 200N 13823 within 600 s;on.$	and THR _{600s} ≤ 4,0 m²; s3 = not s1 or

To be continued...



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Photo Appendix:



SGS authenticate the photo on original report only ***End of Report***



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