



中国认可
国际互认
检测
TESTING
CNAS L6069



Test Report

Report No. TC.25.03.000716

Date of Issue 2025-03-10



Applicant: BESTEX TECHNICAL TEXTILE CO., LTD

Applicant Address: No.82FuyangRoad, Tianning District, Changzhou, Jiangsu

Sample Description: Fiberglass sunscreen
Style No.: G5500BN

Receipt Date of Sample: Received on 2025-03-03
Date of Testing: From 2025-03-03 to 2025-03-06

Sample Submitted: The Sample(s) and Its (Their) Information(s) Was (Were) Submitted by Applicant and Identified.

Test Result: Refer to Next Page.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Prepared by:

han fang

Feng Han

Approved by:

wayne

Wayne Wang

Note:

(1) Each order is subject to acceptance of our [General Terms and Conditions](#) and the [TÜV SÜD Testing, Certification, Validation and Verification Regulation](#), in the version valid at the time the contract is concluded. For full version of above both documents, please visit the link to view.

(2) The results in this report are relevant only to the sample(s) tested.

(3) The test report shall not be reproduced except in full without the written approval of the laboratory.

(4) Disclaimer Measurement Uncertainty:

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 or CNAS-GL015:2022.

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Description of the test subject

Sample	Description	Picture of Sample
001	Fiberglass sunscreen	

Conclusion:

Test Items	Standard	Conclusion
1 Burning behaviour	BS EN 13501-1:2018	B-s3,d0

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Test Results

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

1. EN 13823:2020 reaction to fire tests for building products – building products excluding floorings exposed to the thermal attack by a single burning item

1.1 Sample details

Sample size	Long limb:1500mm×1000mm
	Short limb:1500mm×495mm
Thickness	About 0.8 mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

1.2 Results

	1	2	3	Average
FIGRA _{0.2MJ} (W/s)	0	0	0	0
FIGRA _{0.4MJ} (W/s)	0	0	0	0
LFS< edge of specimen (Yes/No)	Yes	Yes	Yes	--
THR _{600s} (MJ)	0.2	0.3	0.5	0.3
SMOGRA(m ² /s ²)	272.2	260.3	278.4	270.3
TSP _{600s} (m ²)	80.1	68.9	77.6	75.5
Flaming particles or droplets(Yes/No)	No	No	No	--
Observe	--			

Remark:

FIGRA_{0.2MJ}=maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR-threshold of 0.2MJ

FIGRA_{0.4MJ}=maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR threshold of 0.4MJ

LFS=lateral flame spread on the long specimen wing

THR_{600s}=Total heat release from the specimen in the first 600s of exposure to the main burner flames

SMOGRA=smoke growth rate. the maximum of the quotient of smoke production rate from the specimen and the time of its occurrence

TSP_{600s}=Total smoke production from the specimen in the first 600s of exposure the main burner flames



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2. EN ISO 11925-2:2020 Reaction to fire tests- ignitability of building products subjected to direct impingement of flame- part2: single-flame source

2.1 Sample details

Sample size	250mm×90mm
Thickness	About 0.8 mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

2.2 Test results

Face ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	Yes	Yes	Yes
Whether the flame tip reaches 150mm above the flame application point (Yes/ No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper occurs(Yes/No)	No	No	No

Edge ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	Yes	Yes	Yes
Whether the flame tip reaches 150mm above the flame application point (Yes/No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper occurs(Yes/No)	No	No	No

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BS EN 13501-1:2018 table 1 - classification

Classification	Test method		Classification criteria
B	EN 13823 and		FIGRA _{0.2MJ} ≤120W/s; LFS < edge of specimen THR _{600s} ≤7.5 MJ
	EN ISO 11925-2 Exposure = 30 s		F _s ≤150mm within 60s
Additional classification	Smoke	s1	SMOGRA ≤30m ² /s ² , TSP _{600s} ≤50m ²
		s2	SMOGRA ≤180m ² /s ² , TSP _{600s} ≤200m ²
		s3	Not s1 or s2
	Flaming droplets/particles	d0	No flaming droplets/particles in EN 13823 within 600s
		d1	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s
		d2	Not d0 or d1 Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

Conclusion

Test standard	Record	Conclusion
EN 13823	FIGRA _{0.2MJ} = 0 W/s LFS < Sample edge THR _{600s} = 0.3 MJ SMOGRA = 270.3 m ² /s ² TSP _{600s} = 75.5 m ² No flaming droplets/particles in EN 13823 within 600s	B-s3,d0
EN ISO 11925-2	F _s ≤150mm within 60s No ignition of the filter paper occurs.	

Statement : 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 and toxicity hazard of the product in use.

-End of Report-



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