Test Report No.: 70.431.25.18149.01

Date: 2025-10-22

Applicant:
Address:
Product Name: MasterTex Backlit Premium
Receipt Date of Sample: 2025-10-11
Date of Testing: 2025-10-11 to 2025-10-22
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. EN 13501-1:2018 Fire classification of construction products and building elements- Part 1: Classification using data from reaction to fire tests	Pass

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center

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Description of Tested Subject:

Sample	Description	Photo
001	MasterTex Backlit Premium	

Test Result(s):

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+A1:2022 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 0.2 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	0	0	0
SMOGRA(m^2/s^2)	0	0	0	0
TSP_{600S}(m^2)	8.7	7.4	8.5	8.2
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

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 0.2 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)	No	No	No
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)	No	No	No
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

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≤30m²/s², TSP_{600s}≤50m²
		s2	SMOGRA≤180m²/s², TSP_{600s}≤200m²
		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 MJ SMOGRA= 0 m²/s² TSP_{600S}= 8.2 m² No flaming droplets/particles in EN 13823 within 600s	B-s1,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 the sole criterion for assessing the potential smoke and toxicity hazard of the product in use.

-End of Test Report-