

TEST REPORT

2019CN0418

DATE OF RECEPTION

20/06/2019

DATE TESTS

Starting: 26/06/2019

Ending: 04/07/2019

APPLICANT

ZHEJIANG JIANYUN NEW MATERIALS CO, LTD
NO.6 TANGMIN ROAD, TANQIAO INDUSTRIAL
ZONE
CN-314416 HAINING
ZHEJIANG

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES

FABRIC GAYON2019012

According to information supplied by the customer:

Fabric reference: Gayon2019012

Composition & percentage: 93% Meta-aramid, 5% Para-aramid and 2% Antistatic.

Weight: 4.5 OZ

Color: Dark Navy Blue

TESTS CARRIED OUT

- PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING
- FLAME RESISTANCE OF TEXTILES (VERTICAL TEST).

Tests marked with * are not included within the scope of the ENAC accreditation



RESULTS

PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard

AATCC 135:2018

Standard deviation

Reference

Sample 1 Fabric Gayon2019012

Washing machine

13373112

Washing cycles

25

Washing procedure

IV

Dryer machine

Whirlpool 13098112

Drying procedure

Aiii

Washing powder

AATCC 1993 WOB

Start and finish date

27/06/2019 - 02/07/2019

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RESULTS

FLAME RESISTANCE OF TEXTILES (VERTICAL TEST)

Standard

ASTM D6413 / D6413M – 15

Apparatus

Test cabinet for vertical flammability

Original and after pre-treatment test date

02/07/2019 - 04/07/2019

Conditioned

24h in indoor ambient conditions at (21 ± 1) °C and (65 ± 5) % RH

Original and after pre-treatment ambient conditions test

23,2°C and 53,0% RH - 23,0°C and 51,5% RH

Face exposed to the flame

Edge: Outer

Tested material

Navy blue woven fabric.

Sample size

76 mm x 300 mm

Flame contact time

12 s

Test uncertainty

$\pm 0,69$ mm

$\pm 0,31$ s

Deviation from the standard

Reference

FABRIC GAYON2019012

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RESULTS

Pre-Treatment

As received

Orientation of the specimen

Warp

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length
1	0	1,2	No	48,0
2	0	1,2	No	54,0
3	0	1,6	No	45,0
4	0	1,2	No	57,0
5	0	1,4	No	63,0
Average	0	1,4	No	54,0

Orientation of the specimen

Weft

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length
1	0	1,8	No	66,0
2	0	1,4	No	48,0
3	0	1,0	No	54,0
4	0	1,6	No	63,0
5	0	1,6	No	63,0
Average	0	1,4	No	60,0

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RESULTS

Pre-Treatment 25 washing cycles, according to AATCC TM135:2018, washed procedure 3 IV, and tumble drying Aiii.

Orientation of the specimen

Warp

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length
1	0	1,0	No	72,0
2	0	0,8	No	63,0
3	0	0,8	No	63,0
4	0	1,0	No	60,0
5	0	0,8	No	60,0
Average	0	0,8	No	63,0

Orientation of the specimen

Weft

Specimen	After flame time (s)	Afterglow time (s)	Melting and Dripping	Char Length
1	0,0	1,0	No	63,0
2	0	0,8	No	57,0
3	0	0,8	No	69,0
4	0	1,0	No	63,0
5	0	1,0	No	57,0
Average	0	1,0	No	63,0

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RESULTS

NOTE

⁽¹⁾ Each individual after-flame time value is rounded to the nearest 0,2 s, as well as the average calculated of these values.

⁽²⁾ Each individual char length value is rounded to the nearest 3 mm, as well as the average calculated of these values

PERFORMANCE LEVEL ACCORDING TO ASTM F 1506:2018	PASS
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Requirements to be met according to ASTM F 1506:2018, point 7.6.

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| a) No melting and dripping of the test material is permitted. |
| b) The mean value of after flame time shall be ≤ 2 s. |
| c) The average of the char length values shall be ≤ 152 mm. |

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Lucia Martinez
Head of PPE and Ballistics department

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