

TEST REPORT

2020CN0214

DATE OF RECEPTION

30/04/2020

DATE TESTS

Starting: 06/05/2020

Ending: 02/06/2020

APPLICANT

KUNSHAN SUNSHINETEX NEW MATERIAL CO. LTD.
No. 417 Sanxiang Road
CN-215300 Kunshan
JIANGSU

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES

FABRIC POBFD3XY

According to information supplied by the customer:

Fabric reference: POBFD3XY

Composition and percentage: 56% Modacrylic, 43% Polyester and 1% Antistatic

Color: Fluo yellow, Fluo orange, Navy

Others: FR softshell

TESTS CARRIED OUT

- PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING.
- CHARGE DECAY.

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

Rev.1 This revision cancels and replaces the previous

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RESULTS

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

Standard

ISO 6330:2012

Standard deviation

Reference

Sample1 Fabric POBFD3XY

Units

1

Equipment

Wascator 13370E12

Dryer machine

ELECTROLUX
13426E12

Washing procedure 4N **Washing cycles** 5

Drying procedure

F (tumble dryer)

Washing powder

ECE detergent 98 + sodium perborate + TAED

Units	Dry mass of the samples	Counterweight mass	Equipment
1	0,014 Kg	1,900 Kg of Polyester	Wascator 13370E12

Start and finish date

06/05/2020 - 07/05/2020

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RESULTS

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

Standard

ISO 6330:2012

Standard deviation

Reference

Sample1 Fabric POBFD3XY

Units

1

Equipment

Wascator 13470E05

Dryer machine

JAMES HEAL

13472E05

Washing procedure 4N **Washing cycles** 5**Drying procedure**

F (tumble dryer)

Washing powder

ECE detergent 98 + sodium perborate + TAED

Units	Dry mass of the samples	Counterweight mass	Equipment
1	0,093 Kg	1,900 Kg of Polyester	Wascator 13470E05

Start and finish date

27/05/2020 - 28/05/2020

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RESULTS

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

Standard

ISO 6330:2012

Standard deviation

Reference

Sample1 Fabric POBFD3XY

Units	1	2
Equipment	Wascator 13337E12	Wascator 13369E12
Dryer machine	ELECTROLUX 13427E12	ELECTROLUX 13429E12

Washing procedure 4N **Washing cycles** 5

Drying procedure

F (tumble dryer)

Washing powder

ECE detergent 98 + sodium perborate + TAED

Units	Dry mass of the samples	Counterweight mass	Equipment
1	2.00 Kg	---	Wascator 13337E12
2	2.10 Kg	---	Wascator 13369E12

Start and finish date

07/05/2020 - 08/05/2020

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RESULTS

CHARGE DECAY

Standard

EN 1149-3:2004 (Method 2, induction charging)

Conditioned

24h environmental conditions to $(23 \pm 1) ^\circ\text{C}$ and $(25 \pm 5) \% \text{ RH}$

Ambient conditions test

$23,0 ^\circ\text{C}$ and $29,3 \% \text{ RH}$

Test method used

Induction charge (Test method 2)

Potential applied

$(1200 \pm 50) \text{ V}$ in $30 \mu\text{s}$

Time measurement

30 s

Deviation from the Standard

Tested material

Orange woven fabric with grey fleece inner face.

Measurement uncertainty

Shielding factor: $\pm 0,02$

t_{50} : $\pm 0,01 \text{ s}$

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RESULTS

Pre-Treatment

5 washing cycles at 40°C, according to standard EN ISO 6330:2012, method 4N and type F drying (tumble dry)

Reference		Fabric POBFD3XY	
Specimen	Decay half time (s)		Shielding factor (units)
	t_{50}		S
1	< 0,01		0,74
2	< 0,01		0,75
3	< 0,01		0,75
Average	< 0,01		0,75

ACCORDING TO STANDARD EN 1149-5:2018

PASS

ACCEPTANCE CRITERION ACCORDING TO EN 1149-3:2004 AND EN 1149-5:2018, METHOD INDUCTION CHARGING

$$t_{50} < 4s \text{ or } S > 0,2$$

Where, t_{50} = decay half time
S = shielding factor

Start and finish test date

11/05/2020 - 13/05/2020

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Lucia Martinez
Head of PPE and Ballistics department

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