

**Test Report** No: TXC2326 /2022 /PL Date: Jan. 04, 2023 Page 1 of 12

Te Yi Textile Trade Co., Ltd. 9F-2, No. 58, Tung Teh 11th Street, Taoyuan City, Taiwan, R.O.C.

The following sample was submitted and identified by applicant as:

Sample Description One sample of 3 layer laminated fabric LNJA30

38% Recycle Polyester 30% Recycle Nylon 16% PU 16% Nylon

Color Black Sand

Fiber Content Face fabric: 100% Nylon

Backing fabric: 100% Polyester

Fabric Weight 125qsm

Fabric Width 57 inch cuttable

Yarn Size Construction

0100/0102 MW Cloudshield Rain Jacket Style No.

Order No. PO-01155 Item No. LNJA30 Ref No. LNJA30 Lot No. J111019-2

Buyer

Rain Jacket End Use

**Production Stage** Bulk **SS24** Season Category Adult Country of Origin China Country of Destination China Manufacturer

Supplier Fabric Supplier: Te Yi Textile Trade Co., Ltd.

**Applicant** Te Yi Textile Trade Co., Ltd.

Sample Receiving Date Dec. 28, 2022

Test Performance Period Dec. 28, 2022 to Jan. 04, 2023

Client's Provided Care Label Machine Wash Cold (30°C) Gentle Cycle

> **Tumble Dry Low** Do Not Bleach

Low Iron With Pressing Cloth

Do Not Dry Clean

**Test Performed** Selected test(s) as requested by applicant.

**Test Results** For further details, please refer to the following page(s).

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Test Report Conclusion	No: TXC2326 /20  : 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14 15. 16. 17. 18. 19. 20. 21.	Care Label Verification Fiber Content Fabric Weight Abrasion Resistance Pilling Resistance Tensile Strength Tearing Strength Seam Strength Dimensional Stability to Washing Appearance after Washing Measuring Twisting Dimensional Stability to Dry Cleaning Appearance after Dry Cleaning Colorfastness to Washing Colorfastness to Perspiration Colorfastness to Perspiration Colorfastness to Non-chlorine Bleach Colorfastness to Crocking Colorfastness to Light PH Value	Page 2 of 12  M M* M M M M M M M M M M M M M M M M
	22. 23.	Stretch Properties of Fabrics Woven fr Stretch Yarns Flammability Test of Clothing Textiles	om M M
	24. 25.	Water Resistance Water Resistance - Rain test	M M
	26.		M
	27.		M
	28.	Water Vapor Transmission	M
Remarks	:	M = Meets Client's requirements F = Below Client's requirements * = Please see test result	

Tested and residual sample returned to applicant

Signed for and on behalf o SGS Taiwan Ltd. Romme Change Chang Chia Hao, Ronnie **Technical Manager** 

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Test Results:

Requirements

1. Care Label Verification

Conclusion: Based on the results of the test reported, our lab concluded that client's provided care instruction is appropriate for submitted sample.

2. Fiber Content (AATCC 20 - 2021)

	Face Back	Stated	
Nylon	100% -	100% Nylon	No tolerance
Polyester	- 100%	100% Polyester	

3. Fabric Weight [ASTM D3776/D3776M - 20 Option C]

Stated 125 ±5% Mass Per Unit Area (g/m²) 125

Mass Per Unit Area (oz/yd²) 3.07

4. Abrasion Resistance (9 kpa) (ASTM D4966 – 2012 (Reapprove 2016) Option 1-Martindale tester)

Over 20,000 cycles 10,000 cycles

5. Pilling Resistance [ASTM D3512/D3512M - 16 - Random Tumble - 30 mins]

As received Face side Grade

4.5 3.5

Remark: Rating

- 5 No pilling
- 4 Slight pilling
- 3 Moderate pilling
- 2 Severe pilling
- 1 Very severe pilling

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Test Results:

Requirements

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6. Tensile Strength (ASTM D5034 - 21- Grab method, CRE)

Warp direction 90.8 lbs\* 25 lbs

Filling direction 80.3 lbs\*

\*The specimens were broken near the jaw.

7. Tearing Strength (ASTM D1424 - 09(2019) - Elmendorf condition 1 without wetting)

Without wetting

6.7 lbs 2.5 lbs Across warp

Across filling 4.9 lbs

8. Seam Strength (ASTM D1683/D1683M - 17 Procedure A)

Warp direction 70.5 lbs (STB) 20 lbs

Filling direction 59.6 lbs (STB)

Note: STB = Sewing threads break

9. Dimensional Stability to Washing (AATCC 135 2018 Option 1 - (2)IIA - Machine wash

at 80±5°F - using 1993 AATCC Standard Reference Detergent - gentle cycle - tumble dry low - 3 cycles)

Length -3.1% 5% Width -1.5% 5%

Remark: (+) Means Extension and (-) Means Shrinkage

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Test Results:

Requirements

10. Appearance after Washing (AATCC 135 2018 Option 1 - (2)IIA - Machine wash at 80±5°F - using 1993 AATCC Standard Reference Detergent - gentle cycle - tumble dry low - 3 cycles & low iron with pressing cloth)

Observation on washed sample:

After 3 washes

1. Color change: 4.5 2. Pilling: 4.5

3. No other significant change

The general appearance of the washed sample was satisfactory.

No bubble, break off in print, smooth in edge of embroidery. No significant color change nor staining.

11. Measuring Twisting (AATCC 179 - 2019 Method 1 option 2)

After 3 washing\* 0.4% 5%

\*Washing condition: AATCC 135 2018 - (2)IIA - Machine wash at 80±5°F - using 1993 AATCC Standard Reference Detergent - gentle cycle - tumble dry low - 3 cycles.

12. Dimensional Stability to Dry Cleaning (Commercial process - in perchloroethylene - 1 cycle)

Length -0.7% 2.5% Width -0.7% 2.5%

Remark: (+) Means Extension and (-) Means Shrinkage

13. Appearance after Dry Cleaning (Commercial process - in perchloroethylene - 1 cycle)

Observation on dry cleaned sample:

After 1 dry cleaning

1. Color change: 4.5

2. Pilling: 4.5

3. No other significant change

The general appearance of the dry cleaned sample was satisfactory.

No bubble, break off in print, smooth in edge of embroidery. No significant color change nor staining.

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Test Results:

Requirements

14.Colorfastness to Washing (Modified AATCC 61 - 2A - 2013e(2020) - 45min - Mechanical wash but at 105°F - in 0.15% 1993 AATCC standard reference detergent WOB solution with 50 steel balls - 150ml liquor volume)

		Shade change
Change in shade	4.5	4.0
Staining of acetate	4.5	
Staining of cotton	4.5	Staining
Staining of nylon	4.5	4.0
Staining of polyester	4.5	
Staining of acrylic	4.5	
Staining of wool	4.5	

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## 15. Colorfastness to Dry Cleaning (AATCC 132 - 2004e3(2013)e3)

		Shade change
Change in shade	4.5	4.0
Staining of acetate	4.5	
Staining of cotton	4.5	Staining
Staining of nylon	4.5	4.0
Staining of polyester	4.5	
Staining of acrylic	4.5	
Staining of wool	4.5	

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## 16. Colorfastness to Perspiration (AATCC 15 - 2013)

	Shade change
4.5	4.0
4.5	
4.5	Staining
4.5	4.0
4.5	
4.5	
4.5	
	4.5 4.5 4.5 4.5 4.5

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

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Test Results:

17. Colorfastness to Water (AATC	CC 107 - 2013)	Chada ahanga	
		Shade change	
Change in shade	4.5	4.0	

Staining of acetate 4.5 Staining of cotton 4.5 Staining of nylon 4.5 Staining of polyester 4.5 Staining of acrylic 4.5 Staining of wool 4.5

Staining 4.0

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## 18. Colorfastness to Non-chlorine Bleach (AATCC TS-001)

Change in shade (powdered)	4.5	4.0
Change in shade (liquid)	4.5	4.0

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## 19. Colorfastness to Crocking (AATCC 8 - 2016)

Dry staining	4.5	4.0
Wet staining	4.5	3.0

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## 20. Colorfastness to Light (AATCC 16.3 - 2020 - Option 3 - Water-Cooled Xenon-Arc Lamp Fading Test)

After 20 AFU		General
Change in shade	4.0	4.0

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

#### 21. PH Value (AATCC 81 - 2016)

7.2 6.0 - 8.0

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Test Results:

Requirements

22.Stretch Properties of Fabrics Woven from Stretch Yarns (ASTM D3107 - 07 (Reapproved 2019))

A. Fabric Stretch and Fabric Growth after applying a specified tension

	Weft	
Fabric Stretch at 4 lb load after 30 min. (%)	28.4	-
Fabric Growth after 30 sec. relaxation (%)	6.0	-

#### B. Fabric Growth After Stretching to Widthwise\_31.0 cm

Fabric Growth after 30 sec. relaxation (%)	4.8	-
Fabric Growth after 60 min. relaxation (%)	2.0	Max. 7%
Fabric Recovery after 60 min. relaxation (%)	91.7	Min. 70%

Note: 1.Weight used: 4 lb

2. Percentage Extension Used: 85%

3. Gauge Length (original distance between bench marks): 250mm

4. Tested Direction: stretch direction

#### 23. Flammability of Clothing Textiles

(16 CFR Part 1610 - March 25, 2008 Edition)

: Black Sand Sample

Fabric Surface : Plain <u>Test Specimen Direction</u> : Length

	As Received			After Dry-cleaning and Laundering *	
	Flame Spread (sec.) Burn Code			Flame Spread (sec.)	Burn Code
(1)	-	DNI	(1)	-	DNI
(2)	-	DNI	(2)	-	DNI
(3)	-	DNI	(3)	-	DNI
(4)	-	DNI	(4)	-	DNI
(5)	-	DNI	(5)	-	DNI

Flammability Classification: Class 1 Client's Requirement: Class 1

Remarks: Class 1 Normal Flammability

Class 1 textiles exhibit normal flammability and are acceptable for use in clothing.

#### **Burn Code Description:**

#### For Plain Surface textile fabrics:

DNI = Did not ignite

The test was conducted at SGS Taiwan Ltd. Textile Lab which is a CPSC accredited lab for Flammability of Clothing Textiles.

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<sup>\*</sup> Drycleaning / Laundering procedure is according to 16 CFR 1610:6(b).



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Test Results:

Requirements

24. Resistance to Water Penetration (ISO 811:2018 - Hydrostatic pressure test)

As received

Over 5,000 mm Min. 5000 mm/H<sub>2</sub>O

Note: Face side to water Test area: 100 cm<sup>2</sup>

The rate of increase of water pressure: 60±3 cm H<sub>2</sub>O/min.

25. Water Resistance - Rain test (AATCC 35 - 2018)

As received	Result (gm)	
Specimens	-	
1.	<1	Max. 1 gram
2.	<1	
3.	<1	
After 5 washes*	Result (gm)	
Specimens		
1.	<1	Max. 1 gram
2.	<1	
3.	<1	

Test was conducted under a hydrostatic head of 600 millimeters for a period of two (2) minutes.

U.S. Customs lists a maximum of 1.0 gram for a fabric to be considered water resistance.

\*Washing condition: AATCC 135 2018 - (2)IIA - Machine wash at 80±5°F - using 1993 AATCC Standard Reference Detergent - gentle cycle - tumble dry low - 5 cycles.

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Test Results:

Requirements

90

26. Water Repellency (AATCC 22 - 2017 - Spray Test)

Individual Readings (As received)

#### **Specimens**

0001110110		
1.	100	
2.	100	
3.	100	

Individual Readings (After 3 washes\*)

#### Specimens

1.	95	80
1. 2. 3.	95	
3.	95	

Rating: 100 = No sticking or wetting of upper surface.

90 = Slight random sticking or wetting of upper surface.

80 = Wetting of upper surface at spray points.

70 = Partial wetting of whole of upper surface.

50 = Complete wetting of whole of upper surface.

0 = Complete wetting of whole upper and lower surfaces.

\*Washing condition: AATCC 135 2018 - (2)IIA - Machine wash at 80±5°F - using 1993 AATCC Standard Reference Detergent - gentle cycle - tumble dry low - 3 cycles.

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27. Air Permeability of Textile Fabrics (ASTM D737 - 2018; Textest FX3300 Air Permeability Tester III)

Test pressure : 125 Pa Test area 38 sq.cm

Individual Readings (Unit: cfm)

1.	0.107
2.	0.103
3.	0.103
4.	0.106
5.	0.101
6.	0.112
7.	0.116
8.	0.102
9.	0.107
10.	0.105

Commentary:

0.106 Average: <5 cfm

Minimum: 0.101 Maximum: 0.116 CV%: 4.4%

28. Water Vapor Transmission (WVT) (ASTM E 96/E 96M - 16 Procedure BW Inverted Water Method)

241.7 g/m<sup>2</sup>/hr (5,800.0 g/m<sup>2</sup>/24hrs) Min. 900 g/m<sup>2</sup>/24hr

Tested condition: Cup area: 0.003 m<sup>2</sup>

Temperature: 23±1°C

Relative Humidity: 50±2% RH

Note: Back side to water

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\*\*\* End of Report \*\*\*

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