

Textile Laboratory

Test Report

No: TX20563 /2016 /LI

Date: Feb. 25, 2016

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Voll Will Enterprise Co., Ltd.
No. 186, Sec. 3, Chien Kang Rd.
Tainan City, Taiwan, R.O.C.

The following sample was submitted and identified by applicant as:

Sample Description : One sample of Fir Skin® CGX knitted fabric with lamination

Color : Black/Orange

Applicant : Voll Will Enterprise Co., Ltd.

Sample Receiving Date : Feb. 17, 2016

Test Performance Period : Feb. 17, 2016 to Feb. 25, 2016

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

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

Signed for and on behalf of
SGS Taiwan Ltd.



Hu Shuen Long, Tim
Supervisor

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Test Results:

Cadmium

Test Method: With reference to IEC 62321-5:2013 - Analysis was conducted with Inductively Coupled Plasma (ICP).

| | <u>Result</u> <u>(mg/kg)</u> |
|--------------|---|
| Cadmium (Cd) | 1 ND |

Sample Description:

1. Black/Orange Fir Skin® CGX knitted fabric with lamination

Note: ND = Not Detected
Detection limit = 2 mg/kg

Remark: Test was conducted in single trial.

Lead

Test Method: With reference to IEC 62321-5: 2013. Analysis was conducted by Inductively Coupled Plasma (ICP).

| | <u>Result</u> <u>(mg/kg)</u> |
|-----------|---|
| Lead (Pb) | 1 ND |

Sample Description:

1. Black/Orange Fir Skin® CGX knitted fabric with lamination

Note: ND = Not Detected
Detection limit = 2 mg/kg

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Test Results:

Mercury

Test Method: With reference to IEC 62321-4: 2013. Analysis was conducted by Inductively Coupled Plasma (ICP)

| | <u>Result</u> <u>(mg/kg)</u> |
|--------------|---|
| Mercury (Hg) | 1 ND |

Sample Description:

1. Black/Orange Fir Skin® CGX knitted fabric with lamination

Note: ND = Not Detected
Detection limit = 2 mg/kg

Chromium VI

Test Method: With reference to IEC 62321: 2008. Analysis was conducted by UV/VIS Spectrometry.

| | <u>Result</u> <u>(mg/kg)</u> |
|---------------|---|
| Chromium (VI) | 1 3.39 |

Sample Description:

1. Black/Orange Fir Skin® CGX knitted fabric with lamination

Note: Detection Limit = 2 mg/kg

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Test Results:

Polybrominated Biphenyls (PBBs)

Test Method: With reference to IEC 62321-6: 2015. Analysis was conducted by GC-MS.

| Compounds | <u>Result</u> <u>(mg/kg)</u> |
|--------------------|---|
| | 1 |
| Monobromobiphenyl | ND |
| Dibromobiphenyl | ND |
| Tribromobiphenyl | ND |
| Tetrabromobiphenyl | ND |
| Pentabromobiphenyl | ND |
| Hexabromobiphenyl | ND |
| Heptabromobiphenyl | ND |
| Octabromobiphenyl | ND |
| Nonabromobiphenyl | ND |
| Decabromobiphenyl | ND |
| Sum of PBBs | ND |

Sample Description:

1. Black/Orange Fir Skin® CGX knitted fabric with lamination

Note: ND = Not Detected
Detection limit = 5 mg/kg

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Test Results:

Polybrominated Biphenyl Ethers (PBDEs)

Test Method: With reference to IEC 62321-6: 2015. Analysis was conducted by GC-MS.

| Compounds | <u>Result</u> <u>(mg/kg)</u> |
|--------------------------|---|
| | <u>1</u> |
| Monobromobiphenyl ether | ND |
| Dibromobiphenyl ether | ND |
| Tribromobiphenyl ether | ND |
| Tetrabromobiphenyl ether | ND |
| Pentabromobiphenyl ether | ND |
| Hexabromobiphenyl ether | ND |
| Heptabromobiphenyl ether | ND |
| Octabromobiphenyl ether | ND |
| Nonabromobiphenyl ether | ND |
| Decabromobiphenyl ether | ND |
| Sum of PBDEs | ND |

Sample Description:

1. Black/Orange Fir Skin® CGX knitted fabric with lamination

Note: ND = Not Detected
Detection limit = 5 mg/kg

Phthalates

Test Method: As according to IEC 62321-8(111/321/CD). Analysis was conducted by GC-MS.

| Compounds | <u>Result</u> <u>(mg/kg)</u> |
|-------------------------------------|---|
| | <u>1</u> |
| Dibutyl Phthalate (DBP) | ND |
| Benzylbutyl Phthalate (BBP) | ND |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | ND |
| Diisobutyl phthalate (DIBP) | ND |
| Diisononyl Phthalate (DINP) | ND |
| Di-n-octyl Phthalate (DNOP) | ND |
| Diisodecyl Phthalate (DIDP) | ND |

Sample Description:

1. Black/Orange Fir Skin® CGX knitted fabric with lamination

Note: ND = Not detected
Detection limit: 50 mg/kg

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Test Results:

Deodorization: Detecting tube method (JAFET)

| | | *Blank Test(ppm) | Testing sample(ppm) | Reduction (%) |
|-----------------|-------------|------------------|---------------------|---------------|
| NH ₃ | 0 hr | 100 | 100 | - |
| | After 2 hrs | 84.0 | 16.2 | 81 |

Test condition: Amount of specimen: 10 x 10 cm
 Test vessel: Tedlar bag (5L)
 Gas volume: 3L in vessel
 Initial concentration of gas: 100 ppm
 Temperature & Humidity: 20°C, 65%RH

*Blank Test: The same test procedure but no sample in vessel.

Above test items were tested by relevant SGS laboratories.

*** End of Report ***

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