Test Report No. SL3671403 Date: May 29, 2017

Advanced Global Innovations, Ltd.
28/F Soi Pridi Banomyong 2,
Sukhumvit Soi 71, Phra Khanong Nuea
Bangkok 10110, Thailand

The following sample(s) was/were submitted and identified on behalf of the client as:

One sample of knitted fabric, UMBRA in Lamo colour.

Buyer : AGI
Order No. : 02
Style : D5
Manufacturer / Vendor : /
Country of Origin : Thailand
Country of Destination : Thailand
Care Instruction : Hand wash, line dry.
Sample Receiving Date : May 17, 2017
Test Performing Period : May 17, 2017 – May 29, 2017
Test Performed : Selected test(s) as requested by applicant.
Test Result(s) : For further details, please refer to the following page(s).

Signed for and on behalf of SGS (Thailand) Limited

Mali Jattawong
Softlines Testing Manager
Test Report No. SL3671403 Date: May 29, 2017 Page 2 of 6

Test Results:

**Dimensional Stability To Washing** (Washing procedure: Ref. AATCC 135-2015, Hand wash cold, wash at 85 degree F, AATCC 1993 standard detergent, line dry)

<table>
<thead>
<tr>
<th>After 5 washes</th>
<th>Lengthwise (%)</th>
<th>Widthwise (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(-)</td>
<td>-0.1</td>
<td>Nil</td>
</tr>
</tbody>
</table>

Remarks:

(+) Means extension

(-) Means shrinkage

**Appearance After Laundering** (Washing procedure: Ref. AATCC 135-2015, Hand wash cold, wash at 85 degree F, AATCC 1993 standard detergent, line dry)

**Observation on washed sample:**

After 5 washes

- Colour change: No significant change.
- Fuzzing: No significant fuzzing.
- Self-staining: No significant change.

General appearance of the washed sample is satisfactory.

**After 1 wash**

Staining of multifibre stripe

- Acetate: 4.5
- Cotton: 4.5
- Nylon: 4.5
- Polyester: 4.5
- Acrylic: 4.5
- Wool: 4.5
Test Results:

**Color Fastness To Washing**
(AATCC 61-2013, Test No.1B; 45 minutes mechanical wash at 85 degree F in 0.37%, AATCC standard detergent without optical brighteners solution with 10 rubber balls)

- Change in shade: 4.5
- Staining on multifiber stripe:
  - Acetate: 4.5
  - Cotton: 4.5
  - Nylon: 4.5
  - Polyester: 4.5
  - Acrylic: 4.5
  - Wool: 4.5
  - Self-staining: 5.0

**Colorfastness to Water**
(AATCC 107-2013)

- Change in shade: 4.5
- Staining on multifiber stripe:
  - Acetate: 4.5
  - Cotton: 4.5
  - Nylon: 4.5
  - Polyester: 4.5
  - Acrylic: 4.5
  - Wool: 4.5

**Colorfastness to Perspiration**
(AATCC 15-2013)

- Change in shade: 4.5
- Staining on multifiber stripe:
  - Acetate: 4.5
  - Cotton: 4.5
  - Nylon: 4.5
  - Polyester: 4.5
  - Acrylic: 4.5
  - Wool: 4.5
Test Report No. SL3671403 Date: May 29, 2017 Page 4 of 6

Test Results:

Colorfastness to Light (AATCC 16.3-2014 Option 3; Water cooled, Xenon-arc lamp)

After 20 ‘AATCC’ Fading Unit

<table>
<thead>
<tr>
<th>Class</th>
<th>(Lt.Brown/Brown)</th>
<th>(Green)</th>
<th>(Black)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remarks</td>
<td>Grey scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Transmittance or Blocking of Erythemally Weighted Ultraviolet Radiation through Fabrics (AATCC 183-2014)\#

Test conditions
1 Air temperature: 21±1°C
2 Relative humidity: 65±2% R.H.
3 Orientation of test specimen: Specimens were clamped on sample holder. Fabric face side is facing the incident UV light.
4 Test was conducted in wavelength range: 280 - 400 nm
5 Instrument: UV-Vis Spectrophotometer
6 No. of Scans: 6

Test sample: As Received

Test results

<table>
<thead>
<tr>
<th>Percent Transmittance, T (UV-A):</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.12</td>
<td>0.13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Percent Transmittance, T (UV-B):</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01</td>
<td>0.01</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The Percent Blocking, UV-A:</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>99.88</td>
<td>99.87</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The Percent Blocking, UV-B:</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>99.99</td>
<td>99.99</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mean Ultraviolet Protection Factor (UPF):</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>7178</td>
<td>5799</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Deviation:</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>341</td>
<td>156</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Error:</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>563</td>
<td>258</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated UPF:</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>50+</td>
<td>50+</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protection Category:</th>
<th>Dry Evaluation</th>
<th>Wet Evaluation</th>
<th>Specified Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Member of the SGS Group

803467
Remarks:

(1) Refer to ASTM D6603, the UV protection category is determined by the UPF values,

<table>
<thead>
<tr>
<th>UPF</th>
<th>UV Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 or greater</td>
<td>Excellent UV Protection</td>
</tr>
<tr>
<td>in between 25 to 39</td>
<td>Very Good UV Protection</td>
</tr>
<tr>
<td>in between 15 to 24</td>
<td>Good UV Protection</td>
</tr>
<tr>
<td>less than 15</td>
<td>Unclassification</td>
</tr>
</tbody>
</table>

(2) Ultraviolet Protection Factor (UPF) is the ratio of the average effective ultraviolet radiation (UV-R) irradiance transmitted and calculated through air to the average effective UV-R irradiance transmitted and calculated through fabric.

(3) The limits of the spectral range of ultraviolet radiation are not well defined and may vary according to the user. Committee E-2.12 of the International Commission on Illumination (CIE) distinguishes in the spectral range between 400 and 100 nm:

- UV-A: 315 - 400 nm
- UV-B: 280 - 315 nm
- UV-R: 280 - 400 nm

(4) This method can also be used to determine the UPF of the fabrics in a stretched state. However, the techniques for stretching the specimens are not part of this method and are addressed in a separate test procedure. It must be noted that stretching the specimens could change the UPF properties.

(5) The listed protection category is for reference only, the market claims for labeling UV-Protection product shall follow "Standard Guide For Labeling UV-Protection Textiles" as stated in ASTM D6603.

Note: Graph Appendix is attached
Test Report No. SL3671403  Date: May 29, 2017  Page 6 of 6

Sample
Dry evaluation

Wet evaluation

Note: # The captioned test is conducted by SGS Hong Kong Ltd.,

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