

Test Report

No: TXN1476 /2011 /SH

Date: Nov. 25, 2011

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Taiwan Textile Research Institute
No. 6, Chen-Tian Road, Tu-Chen District,
New Taipei City, Taiwan, R.O.C.

The following sample was submitted and identified by the client as:

Sample Description : One sample of knitted white glow in the dark fabric (whit/green light)

Fiber Content : Polyester

End Use : Sport shirt/Furnishing fabric/Doll

Sample Receiving Date : Nov. 18, 2011

Test Performance Period : Nov. 18 to Nov. 24, 2011

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 Results:

1.Migratable Fluorescent Substances (Ref. to CNS 11820 P3082)

Negative

Note: Negative = Not contain migratable fluorescent substances

2.Migration of Certain Elements

Test Method: With reference to EN 71 Part 3: 1994 – with the incorporation of amendments A1:2000, analysis was conducted by Inductively Coupled Plasma (ICP)

| Element | Result (mg/kg) | Max. Limit (mg/kg) |
|--------------------|-------------------|-----------------------|
| Lead (Soluble) | ND | 90 |
| Antimony (Soluble) | ND | 60 |
| Arsenic (Soluble) | ND | 25 |
| Barium (Soluble) | ND | 1000 |
| Cadmium (Soluble) | ND | 75 |
| Chromium (Soluble) | ND | 60 |
| Mercury (Soluble) | ND | 60 |
| Selenium (Soluble) | ND | 500 |
| Conclusion | PASS | |

Note: ND = Not Detected
Detection Limit:

| Test item(s) | Detection Limit (mg/kg) |
|--------------|-------------------------|
| Antimony, Sb | 2 |
| Arsenic, As | 1 |
| Lead, Pb | 1 |
| Cadmium, Cd | 1 |
| Chromium, Cr | 1 |
| Mercury, Hg | 2 |
| Barium, Ba | 1 |
| Selenium, Se | 2 |

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Test Results:

3.Carcinogenic Dyes

Test Method: With reference to DIN 54231:2005 – Analysis was conducted with HPLC-DAD-MSD.

| Compounds | CAS No. | Result (mg/L) |
|--|-----------|------------------|
| C.I. Acid Red 26 (Structure No: C.I. 16 150) | 3761-53-3 | ND |
| C.I. Basic Red 9 (Structure No: C.I. 42 500) | 569-61-9 | ND |
| C.I. Direct Black 38 (Structure No: C.I. 30 235) | 1937-37-7 | ND |
| C.I. Direct Blue 6 (Structure No: C.I. 22 610) | 2602-46-2 | ND |
| C.I. Direct Red 28 (Structure No: C.I. 22 120) | 573-58-0 | ND |
| C.I. Basic Violet 14 (Structure No: C.I. 42 510) | 632-99-5 | ND |
| C.I. Disperse Orange 11 (Structure No: C.I. 60 700) | 82-28-0 | ND |
| C.I. Disperse Blue 1 (Structure No: C.I. 64 500) | 2475-45-8 | ND |
| C.I. Disperse Yellow 3 (Structure No: C.I. 11 855) | 2832-40-8 | ND |

Note: ND = Not Detected
Detection Limit = 1mg/L

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Test Results:

4.Allergeneous Disperse Dyes and Other Dyestuffs

Test Method: With reference to DIN 54231:2005 – Analysis was conducted with HPLC-DAD-MSD.

| Compounds | CAS No. | Result (mg/L) |
|---|------------|------------------|
| C.I. Disperse Blue 1 (Structure No: C.I. 64 500) | 2475-45-8 | ND |
| C.I. Disperse Blue 3 (Structure No: C.I. 61 505) | 2475-46-9 | ND |
| C.I. Disperse Blue 7 (Structure No: C.I. 62 500) | 3179-90-6 | ND |
| C.I. Disperse Blue 26 (Structure No: C.I. 63 305) | 3860-63-7 | ND |
| C.I. Disperse Blue 35 | 56524-77-7 | ND |
| | 56524-76-6 | |
| C.I. Disperse Blue 102 | 12222-97-8 | ND |
| C.I. Disperse Blue 106 | 12223-01-7 | ND |
| C.I. Disperse Blue 124 | 61951-51-7 | ND |
| C.I. Disperse Brown 1 | 23355-64-8 | ND |
| C.I. Disperse Orange 1 (Structure No: C.I. 11 080) | 2581-69-3 | ND |
| C.I. Disperse Orange 3 (Structure No: C.I. 11 005) | 730-40-5 | ND |
| C.I. Disperse Orange 37/76 | 13301-61-6 | ND |
| C.I. Disperse Red 1 (Structure No: C.I. 11 110) | 2872-52-8 | ND |
| C.I. Disperse Red 11 (Structure No: C.I. 62 015) | 2872-48-2 | ND |
| C.I. Disperse Red 17 (Structure No: C.I. 11 210) | 3179-89-3 | ND |
| C.I. Disperse Yellow 1 (Structure No: C.I. 10 345) | 119-15-3 | ND |
| C.I. Disperse Yellow 3 (Structure No: C.I. 11 855) | 2832-40-8 | ND |
| C.I. Disperse Yellow 9 (Structure No: C.I. 10 375) | 6373-73-5 | ND |
| C.I. Disperse Yellow 39 | -- | ND |
| C.I. Disperse Yellow 49 | 54824-37-2 | ND |
| Other Dyestuffs | | Result (mg/L) |
| | CAS No. | |
| C.I. Disperse Yellow 23 | 6250-23-3 | ND |
| C.I. Disperse Orange 149 | 85136-74-9 | ND |

Note: ND = Not Detected
Detection Limit = 1 mg/L

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Test Results:

5. Phthalates

Test Method: With reference to CPSC-CH-C1001-09.3. Analysis was performed by Gas Chromatography / Mass Spectrometry.

| Compounds | Result (%) |
|-------------------------------------|---------------|
| Dibutyl Phthalate (DBP) | ND |
| Benzylbutyl Phthalate (BBP) | ND |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | ND |
| Diisononyl Phthalate (DINP) | ND |
| Di-n-octyl Phthalate (DNOP) | ND |
| Diisodecyl Phthalate (DIDP) | ND |

Note : 1. ND = not detected
2. Method Detection Limit = 0.015 %

The test items 2~5 were tested by relevant SGS laboratory.

*** End of Report ***

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台灣檢驗科技股份有限公司
SGS Taiwan Ltd.

SAMPLE CARD

Inspection, Verification, Testing and Certification

No.31, Wu Chyuan Road

New Taipei Industrial Park

New Taipei City, Taiwan 24886

Tel : (886-2) 2299-3939

Fax: (886-2) 2299-3227

Consumer Products Service / Textile Lab

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