

**GROSSI SRL**  
**V.A. Gramsci 137 - 51015 Monsummano Terme, Pistoia**

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

| Sample No. | Sample Description                                      |
|------------|---|
| A          | Round Leather Lace in Our code 287 colour for shoe lace |

Client's reference No. : 64259

Buyer : -

End Use : Shoelace

Order No. : -

Lot No. : -

Style No. : -

Season : -

Item No. : -

Category : -

Age Grade : -

Production Stage : -

Manufacturer : -

Supplier : -

Country of Origin : -

Country of Destination : ECCO's Units

Other Information : Remove buyer's name, as per client's request

Sample Receiving Date : March 30, 2015

Test Performing Period : April 28 – May 12, 2015

**Overall Conclusion : PASS**

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Test Results : Please refer to the next page(s).

| Test Parameters                | Result |
|--------------------------------|--------|
|                                | A      |
| Azo Dyes                       | M      |
| AP/APEO                        | M      |
| DMFu                           | M      |
| Extractable Heavy Metal        | M      |
| PCP, TeCP, TriCP               | M      |
| Formaldehyde                   | M      |
| pH Value                       | M      |
| Organotin                      | M      |
| SCCP                           | M      |
| Total Lead Content             | M      |
| Chromium VI after aging        | M      |
| Soluble Mineral tanning agents | M      |
| Triclosan                      | M      |
| 1-methyl-2-pyrrolidone (NMP)   | M      |

Remarks : M = Pass  
 F = Fail  
 \* = No specified requirement

Notes: Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

Signed for and on behalf of  
 PT. SGS Indonesia



Ellya Santhy  
 Assistant Manager Softlines & Hardgoods

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Component List / List of Materials

| Sample No. | Material No. | Component       | Material | Color | Fiber Type* | Remark |
|------------|--------------|-----------------|----------|-------|-------------|--------|
| A          | 1            | Natural leather | Leather  | Brown | N/A         |        |

\* This fiber type identification is for the selection of azo dye testing procedure (i.e. EN 14362-1/3:2012).

Note:

Type A = Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B = Textile contains polyester fibers only

Type C = Textile contains man-made fibers and/or man-made blended fibers (except polyester fibers)

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**Test Results:**
**Azo Dyes**

Test Method:

Leather: According to DIN ISO/TS 17234-1:2012 – Analysis was conducted with GC-MS/HPLC-DAD.

| Amines  | CAS No.  | Result<br>(mg/kg) | Client's<br>requirement<br>(mg/kg) |
|---|----------|-------------------|------------------------------------|
|   |          | <u>1</u>          |                                    |
| 4-Aminobiphenyl   | 92-67-1  | n.d.              | 30                                 |
| Benzidine   | 92-87-5  | n.d.              | 30                                 |
| 4-Chlor-o-toluidine   | 95-69-2  | n.d.              | 30                                 |
| 2-Naphthylamine   | 91-59-8  | n.d.              | 30                                 |
| o-Aminoazotoluene   | 97-56-3  | n.d.              | 30                                 |
| 5-nitro-o-toluidine / 2-Amino-4-nitrotoluene                                | 99-55-8  | n.d.              | 30                                 |
| 4-Chloroaniline   | 106-47-8 | n.d.              | 30                                 |
| 4-methoxy-m-phenylenediamine /<br>2,4 Diaminoanisole                        | 615-05-4 | n.d.              | 30                                 |
| 4,4'-Diaminodiphenylmethane   | 101-77-9 | n.d.              | 30                                 |
| 3,3'-Dichlorobenzidine  | 91-94-1  | n.d.              | 30                                 |
| 3,3'-Dimethoxybenzidine   | 119-90-4 | n.d.              | 30                                 |
| 3,3'-Dimethylbenzidine  | 119-93-7 | n.d.              | 30                                 |
| 4,4'-methylenedi-o-toluidine /<br>3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | n.d.              | 30                                 |
| p-Cresidine   | 120-71-8 | n.d.              | 30                                 |
| 4,4'-Methylene-bis-(2-chloroaniline)  | 101-14-4 | n.d.              | 30                                 |
| 4,4'-Oxydianiline   | 101-80-4 | n.d.              | 30                                 |
| 4,4'-Thiodianiline  | 139-65-1 | n.d.              | 30                                 |
| o-Toluidine   | 95-53-4  | n.d.              | 30                                 |
| 4-methyl-m-phenylenediamine /<br>2,4-Toluyldiamine                          | 95-80-7  | n.d.              | 30                                 |
| 2,4,5-Trimethylaniline  | 137-17-7 | n.d.              | 30                                 |
| 4-aminoazobenzene   | 60-09-3  | n.d.              | 30                                 |
| O-Anisidine   | 90-04-0  | n.d.              | 30                                 |
| 2,6 – Xylidine  | 87-62-7  | n.d.              | 30                                 |
| 2,4 – Xylidine  | 95-68-1  | n.d.              | 30                                 |
| <b>Conclusion</b>   |          | <b>Pass</b>       |                                    |

Note: n.d. = not detected  
 Detection Limit = 5 mg/kg (for individual compound)

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphthylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

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In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

Remark: Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method

### Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO)

Test Method: DIN EN ISO 18218:2012. Analysis was conducted by HPLC-MS.

| <b>Alkylphenols</b>           | <b>Result<br/>(mg/kg)</b> | <b>Client's requirement<br/>(mg/kg)</b> |
|-------------------------------|---------------------------|---|
|                               | <b>1</b>                  |   |
| Nonylphenol (NP)              | n.d.                      | 500                                     |
| Octylphenol (OP)              | n.d.                      | 500                                     |
| Nonylphenol Ethoxylate (NPEO) | 33 mg/kg                  | 500                                     |
| Octylphenol Ethoxylate (OPEO) | n.d.                      | 500                                     |
| <b>Conclusion</b>             | <b>Pass</b>               |   |

Note: n.d. = not detected

Detection Limit:

AP: 10 mg/kg

APEO: 30 mg/kg

### Total Lead content in substrate material

Test Method : CPSC-CH-E1002-08.1. Analysis was conducted by ICP-OES

|                   | <b>Result<br/>(mg/kg)</b> | <b>Client's requirement<br/>(mg/kg)</b> |
|-------------------|---------------------------|---|
|                   | <b>1</b>                  |   |
| Lead (Pb)         | n.d.                      | 100                                     |
| <b>Conclusion</b> | <b>Pass</b>               |   |

Note: n.d. = not detected

ppm = mg/kg

Detection Limit: 10 mg/kg

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**Test Results:**

**Dimethyl fumarate**

Test Method : DIN CEN ISO/TS 16186:2012. Analysis was conducted by GC/MSD

| <b>Compounds</b>  | <b><u>CAS No.</u></b> | <b><u>Result (mg/kg)</u></b> | <b><u>Client's requirement (mg/kg)</u></b> |
|-------------------|-----------------------|------------------------------|--|
| Dimethyl fumarate | 624-49-7              | n.d                          | 0.1  |
| <b>Conclusion</b> |                       | <b>Pass</b>                  |  |

Note: n.d. = not detected  
 Detection Limit = 0.1 mg/kg

**Extractable Heavy Metal**

Test Method: With reference to ISO105-E04:2008 solution II, extraction with acidic sweat solution followed by analysis with ICP-OES/ICP-MS and UV-VIS for Cr VI.

| <b>Extractable Heavy Metal</b> | <b><u>Result (mg/kg)</u></b> | <b><u>Client's requirement (mg/kg)</u></b> |
|--------------------------------|------------------------------|--|
|                                | <b><u>1</u></b>              | ---  |
| Antimony (Sb)                  | n.d.                         | 5.0  |
| Arsenic (As)                   | n.d.                         | 0.2  |
| Lead (Pb)                      | n.d.                         | 0.8  |
| Cadmium (Cd)                   | n.d.                         | 0.1  |
| Cobalt (Co)                    | n.d.                         | 4.0  |
| Copper (Cu)                    | n.d.                         | 50   |
| Nickel (Ni)                    | n.d.                         | 4.0  |
| Mercury (Hg)                   | n.d.                         | 0.02                                       |
| <b>Conclusion</b>              | <b>Pass</b>                  |  |

Note: n.d. = not detected  
 Detection Limit:

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| <u>Test item(s)</u> | <u>Detection Limit (mg/kg)</u> |
|---------------------|--------------------------------|
| Antimony, Sb        | 1.0                            |
| Arsenic, As         | 0.2                            |
| Lead, Pb            | 0.2                            |
| Cadmium, Cd         | 0.1                            |
| Cobalt, Co          | 1.0                            |
| Copper, Cu          | 5.0                            |
| Nickel, Ni          | 0.5                            |
| Mercury, Hg         | 0.02                           |

**Chlorinated Phenols**

Test Method: Modified DIN EN ISO 17070: 2007 with alkaline digestion – Analysis was conducted by GC-MS

|                                 | <u>Result (mg/kg)</u> | <u>Client's requirement (mg/kg)</u> |
|---------------------------------|-----------------------|-------------------------------------|
|                                 | <b>1</b>              |                                     |
| Pentachlorophenol (PCP)         | n.d.                  | 0.5                                 |
| Sum of Tetrachlorophenol (TeCP) | n.d.                  | 0.5                                 |
| <b>Conclusion</b>               | <b>Pass</b>           |                                     |

Note: n.d.= not detected  
Detection limit = 0.05 mg/kg

**Trichlorophenol Content**

Test Method : With reference to DIN EN ISO 17070:2007 with alkaline digestion. Analysis was conducted by GC-MS.

| <u>Trichlorophenol (TCP)</u> | <u>Result (mg/kg)</u> | <u>Client's requirement (mg/kg)</u> |
|------------------------------|-----------------------|-------------------------------------|
|                              | <b>1</b>              |                                     |
| 2,4,6-TCP                    | n.d.                  | /                                   |
| 2,3,6-TCP                    | n.d.                  | /                                   |
| 2,3,5-TCP                    | n.d.                  | /                                   |
| 2,4,5-TCP                    | n.d.                  | /                                   |
| 2,3,4-TCP                    | n.d.                  | /                                   |
| 3,4,5-TCP                    | n.d.                  | /                                   |
| <b>Total TCP</b>             | n.d.                  | 0.5                                 |
| <b>Conclusion</b>            | <b>Pass</b>           |                                     |

Note: n.d.= not detected  
Detection limit = 0.05 mg/kg (for individual compound)

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**Free Formaldehyde in Leather**

Test Method: With reference to ISO 17226-1. Analysis was performed by HPLC.

| <b>Compounds</b>  | <b><u>Result</u></b><br><b><u>(mg/kg)</u></b> | <b><u>Client's requirement</u></b><br><b><u>(mg/kg)</u></b><br><b><u>Adults</u></b> |
|-------------------|---|---|
|                   | <b><u>1</u></b>                               |   |
| Formaldehyde      | n.d.  | 75  |
| <b>Conclusion</b> | <b>Pass</b>                                   |   |

 Note: n.d. = not detected  
 Detection limit = 16 mg/kg

**pH value in Leather**

Test Method: According to DIN EN ISO 4045

|                   | <b><u>Result</u></b> | <b><u>Recommended Max. Limit</u></b> |
|-------------------|----------------------|--------------------------------------|
|                   | <b><u>1</u></b>      | <b><u>(Leather)</u></b>              |
| pH value          | 3.7                  | 3.5 – 7.0                            |
| <b>Conclusion</b> | <b>Pass</b>          |                                      |

**Organotins**

Test Method: With reference to PD CEN/ISO/TS 16179-2012. Analysis was conducted by GC-MS.

| <b>Organotin</b>                    | <b><u>Result</u></b><br><b><u>(mg/kg)</u></b> | <b><u>Client's requirement</u></b><br><b><u>(mg/kg)</u></b> |
|-------------------------------------|---|---|
|                                     | <b><u>1</u></b>                               |   |
| Tributyltin compounds (TBT)         | n.d.  | 0.025   |
| Dibutyl tin compounds (DBT)         | n.d.  | 1.0   |
| Monobutyl tin compounds (MBT)       | n.d.  | 1.0   |
| Diocetyl tin compounds (DOT)        | n.d.  | 1.0   |
| Triphenyltin compounds (TPhT)       | n.d.  | 1.0   |
| Bis (tributyl) tin compounds (TBTO) | n.d.  | 1.0   |
| <b>Conclusion</b>                   | <b>Pass</b>                                   |   |

 Note: n.d. = not detected  
 Detection limit = 0.02 mg/kg (for individual compound)

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**Short Chain Chlorinated Paraffin (SCCP)**

Test Method : In prDIN EN ISO 18219:2012. Analysis was performed by GC-ECD.

|   | <b><u>Result</u></b><br><b><u>(mg/kg)</u></b> | <b><u>Client's Requirement</u></b> |
|---|---|------------------------------------|
|   | <b>1</b>                                      |                                    |
| Short Chain Chlorinated Paraffin (SCCP) | n.d.  | n.d.                               |
| <b>Conclusion</b>                       | <b>Pass</b>                                   |                                    |

Note: n.d. = Not detected  
 Detection Limit = 50 mg/kg

**Chromium VI after aging\***

Test Method: With reference to ISO 17075. Analysis was performed by UV/VIS Spectrometry  
 (Aging condition at 80 °C for 24 hour at <20% relative humidity before Cr(VI) determination).

|                   | <b><u>Result</u></b> |
|-------------------|----------------------|
|                   | <b>1</b>             |
| Chromium (VI)     | n.d.                 |
| <b>Conclusion</b> | <b>PASS</b>          |

Note: n.d. = not detected  
 mg/kg = ppm  
 Detection Limit = 3 ppm  
**Client's Limit: < 3 ppm**

Remark \* = "The captioned test is conducted by SGS Taiwan, test report number: KE/2015/40123, dated at Apr 08, 2015."

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**Soluble Mineral Tanning Agents\***

Test Method: With reference to EN ISO 17072-1. Determination by using ICP-AES.

|                           | <u>Result</u>   |
|---------------------------|-----------------|
|                           | <u>1</u>        |
| Aluminum (Al)             | n.d.            |
| Chromium (Cr)             | 76.4 ppm        |
| Titanium (Ti)             | n.d.            |
| Zirconium (Zr)            | n.d.            |
| <b>Sum Al, Cr, Ti, Zr</b> | <b>76.4 ppm</b> |
| <b>Conclusion</b>         | <b>PASS</b>     |

Note: n.d. = not detected  
 Detection Limit : Al, Ti, Zr = 1 ppm; Cr = 0.5 ppm  
 mg/kg = ppm  
**Client's Limit: Sum <50 ppm (Children's product under 36 months)**  
**Sum <200 ppm (Adults)**

**Triclosan\***

Test Method : Solvent extraction. Analysis was conducted by GC/MS.

|           | <u>Result</u> |
|-----------|---------------|
|           | <u>1</u>      |
| Triclosan | n.d.          |
|           | <b>PASS</b>   |

Note: n.d. = not detected  
 Detection Limit = 2 ppm  
 mg/kg = ppm  
**Client's Limit: <50 ppm**

**1-Methyl-2-pyrrolidone (NMP)\***

Test method: Headspace GC/MS.

|                   | <u>Result</u> |
|-------------------|---------------|
|                   | <u>1</u>      |
| NMP               | n.d.          |
| <b>Conclusion</b> | <b>PASS</b>   |

Note: n.d. = not detected  
 Detection Limit = 10 ppm  
 mg/kg = ppm  
**Client's Limit: < 500 ppm**

Remark \* = "The captioned test is conducted by SGS Taiwan, test report number: KE/2015/40123, dated at Apr 08, 2015."

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Sample Picture



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

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