



## Test Report

No. BR2301110 Rev. 0

Date: Barueri, 18 Apr 2023

Page 1 of 6

MSM-PRODUTOS PARA CALCADOS LTDA

AV RIO BRANCO

520

FRANCA, SP 14405080

BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: SOLA VIBRAM FUGA (CUNHO) EVA GREEN 379 BUTTER/OXFORD GREY/BLACK

SGS Order No. : 400000004392

Total of Sample : 03 SAMPLES

Lot Number : REVALIDAÇÃO DE LAUDOS

Project : VEJA

Test Product : EVA materials

Mix : YES

Colors : 1.COR BUTTER- CÓDIGO :688/03 | 2.COR OXFORD GREY – CÓDIGO: 009/09 | 3. COR BLACK CÓDIGO 001/00

Sample composed of fibers of plant origin : NO

Sample contains PVC or recycled material in the composition : NO

water repellent material : NO

Sample covered with paints or varnishes : NO

Sample based on PU : NO

**The informations above was provided by or on behalf of the customer.**

Proposal Number : C&P PR23-330292 REV00

Sample Receiving Date : 06 Apr 2023

Test Performing Period : 10 Apr 2023 - 18 Apr 2023

Test Requested : Selected test(s) as requested by client.

Test Part Description : Please refer to next page(s).

Test Method : Please refer to next page(s).

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

Technical Responsibility : Alessandra Shimizu - Laboratory Manager CRQ 04245592

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## Test Report

No. BR2301110 Rev. 0

Date: Barueri, 18 Apr 2023

Page 2 of 6

Sample Photo :



SGS authenticate the photo on original report only

Signed for and on behalf of  
SGS do Brasil Ltda.

Alessandra Shimizu  
Laboratory Manager CRQ 04245592

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## Test Report

No. BR2301110 Rev. 0

Date: Barueri, 18 Apr 2023

Page 3 of 6

Test Results :

Test Part Description :

| Item No. | SGS Sample ID | Description   |
|----------|---------------|---|
| 1        | BR2301110.001 | SOLA VIBRAM FUGA (CUNHO) EVA GREEN 379 BUTTER/OXFORD GREY/BLACK |

### Nonylphenol (NP) and Octylphenol (OP)

Test Method : Sample preparation by solvent extraction (EN ISO 21084: 2019), analysis performed by GC-MS.

| Test Item(s)          | CAS-NO.    | Limit       | RL    | Unit  | Result |
|-----------------------|------------|-------------|-------|-------|--------|
| Nonylphenol (NP)      | 25154-52-3 | -           | 10.00 | mg/kg | ND     |
| Octylphenol (OP)      | 27193-28-8 | -           | 10.00 | mg/kg | ND     |
| Sum of NP and OP (AP) |            | Max. 100.00 | 10.00 | mg/kg | ND     |

### Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)

Test Method : Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-MS.

| Test Item(s)                   | CAS-NO.   | Limit       | RL    | Unit  | Result |
|--------------------------------|-----------|-------------|-------|-------|--------|
| Nonylphenol ethoxylates (NPEO) | 9016-45-9 | -           | 20.00 | mg/kg | ND     |
| Octylphenol ethoxylates (OPEO) | 9002-93-1 | -           | 20.00 | mg/kg | ND     |
| Sum of NPEO and OPEO           |           | Max. 100.00 | 20.00 | mg/kg | ND     |

### Determination of Bisphenol

Test Method : Extraction: 1 g sample / 20 ml  
THF, sonication for 60 minutes at 60°C, analysis with LC/MS

| Test Item(s)        | CAS-NO.   | Limit     | RL   | Unit  | Result |
|---------------------|-----------|-----------|------|-------|--------|
| Bisphenol A (BPA)   | 80-05-7   | Max. 1.00 | 1.00 | mg/kg | ND     |
| Bisphenol-AF (BPAF) | 1478-61-1 | -         | 1.00 | mg/kg | ND     |
| Bisphenol-F (BPF)   | 620-92-8  | -         | 1.00 | mg/kg | ND     |
| Bisphenol-S (BPS)   | 80-09-1   | -         | 1.00 | mg/kg | ND     |

Notes :

Bisphenol-S (BPS), Bisphenol-F (BPF) and Bisphenol-AF (BPAF) without restriction

### Total Heavy Metals

Test Method : DIN EN 16711-1:2016, Analysis was conducted by ICP-MS

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## Test Report

No. BR2301110 Rev. 0

Date: Barueri, 18 Apr 2023

Page 4 of 6

| <u>Test Item(s)</u> | <u>CAS-NO.</u> | <u>Limit</u> | <u>RL</u> | <u>Unit</u> | <b>Result</b><br><u>001</u> |
|---------------------|----------------|--------------|-----------|-------------|-----------------------------|
| Arsenic (As)        | 7440-38-2      | Max. 100.00  | 10.00     | mg/kg       | ND                          |
| Cadmium (Cd)        | 7440-43-9      | Max. 40.00   | 5.00      | mg/kg       | ND                          |
| Mercury (Hg)        | 7439-97-6      | Max. 0.50    | 0.10      | mg/kg       | ND                          |

### Non-Metal Products

Test Method : With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>RL</u> | <u>Unit</u> | <b>Result</b><br><u>001</u> |
|---------------------|--------------|-----------|-------------|-----------------------------|
| Lead (Pb)           | Max. 90.00   | 10.00     | mg/kg       | ND                          |

### Polycyclic aromatic hydrocarbons (PAH)

Test Method : With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.

| <u>Test Item(s)</u>           | <u>CAS-NO.</u> | <u>Limit</u> | <u>RL</u> | <u>Unit</u> | <b>Result</b><br><u>001</u> |
|-------------------------------|----------------|--------------|-----------|-------------|-----------------------------|
| Acenaphthene (ANA)            | 83-32-9        | -            | 0.20      | mg/kg       | ND                          |
| Acenaphthylene (ANY)          | 208-96-8       | -            | 0.20      | mg/kg       | ND                          |
| Anthracene (ANT)              | 120-12-7       | -            | 0.20      | mg/kg       | ND                          |
| Benzo(g,h,i)perylene (BPE)    | 191-24-2       | -            | 0.20      | mg/kg       | ND                          |
| Fluorene (FLU)                | 86-73-7        | -            | 0.20      | mg/kg       | ND                          |
| Fluoranthene (FLT)            | 206-44-0       | -            | 0.20      | mg/kg       | ND                          |
| Indeno(1,2,3-c,d)pyrene (IPY) | 193-39-5       | -            | 0.20      | mg/kg       | ND                          |
| Naphthalene (NAP)             | 91-20-3        | -            | 0.20      | mg/kg       | ND                          |
| Phenanthrene(PHE)             | 85-01-8        | -            | 0.20      | mg/kg       | ND                          |
| Pyrene (PYR)                  | 129-00-0       | -            | 0.20      | mg/kg       | 0.30                        |
| Benzo(a)anthracene (BaA)      | 56-55-3        | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Benzo(a)pyrene (BaP)          | 50-32-8        | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Benzo(b)fluoranthene (BbF)    | 205-99-2       | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Benzo(e)pyrene (BeP)          | 192-97-2       | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Benzo(j)fluoranthene (BjF)    | 205-82-3       | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Benzo(k)fluoranthene (BkF)    | 207-08-9       | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Chrysene (CHR)                | 218-01-9       | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Dibenzo(a,h)anthracene (DBA)  | 53-70-3        | Max. 0.50    | 0.20      | mg/kg       | ND                          |
| Sum of 18 PAHs                |                | Max. 10.00   | 0.20      | mg/kg       | 0.30                        |

### Phthalates

Test Method : With reference to ISO 14389:2014; Analysis was performed by GC-MS/CPSC Method  
CPSC-CH-C1001.09.4:2018

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## Test Report

No. BR2301110 Rev. 0

Date: Barueri, 18 Apr 2023

Page 5 of 6

| Test Item(s)  | CAS-NO.     | Limit        | RL     | Unit  | Result<br><b>001</b> |
|---|-------------|--------------|--------|-------|----------------------|
| Diisononyl Phthalate (DINP)   | 28553-12-0  | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Di-n-octyl Phthalate (DNOP)   | 117-84-0    | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Bis-(2-ethylhexyl) Phthalate (DEHP)   | 117-81-7    | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Diisodecyl Phthalate (DIDP)   | 26761-40-0  | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Benzylbutyl Phthalate (BBP)   | 85-68-7     | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Dibutyl Phthalate (DBP)   | 84-74-2     | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Diisobutyl Phthalate (DIBP)   | 84-69-5     | Max. 500.00  | 30.00  | mg/kg | ND                   |
| Di-n-hexyl Phthalate (DnHP)   | 84-75-3     | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Diethyl Phthalate (DEP)   | 84-66-2     | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Dimethyl Phthalate (DMP)  | 131-11-3    | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Di-n-pentyl Phthalate (DPENP)   | 131-18-0    | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Dicyclohexyl Phthalate (DCHP)   | 84-61-7     | Max. 500.00  | 50.00  | mg/kg | ND                   |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6  | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Bis(2-methoxyethyl) Phthalate (DMEP)  | 117-82-8    | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Diisopentyl Phthalate (DIPP)  | 605-50-5    | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Dipropyl phthalate (DPRP)   | 131-16-8    | Max. 500.00  | 50.00  | mg/kg | ND                   |
| Diisooctyl phthalate (DIOP)   | 27554-26-3  | Max. 500.00  | 50.00  | mg/kg | ND                   |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4  | Max. 500.00  | 50.00  | mg/kg | ND                   |
| 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear               | 84777-06-0  | Max. 500.000 | 50.000 | mg/kg | ND                   |
| 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters          | 68648-93-1  | Max. 500.000 | 30.000 | mg/kg | ND                   |
| 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters                             | 68515-51-5  | Max. 500.000 | 30.000 | mg/kg | ND                   |
| N-pentyl-isopentyl Phthalate (NPIPP)  | 776297-69-9 | Max. 500.00  | 30.00  | mg/kg | ND                   |
| Di-hexylphthalate, branched and linear (DHxP)                                   | 68515-50-4  | Max. 500.000 | 30.000 | mg/kg | ND                   |
| Di-iso-hexylphthalate (DIHxP)   | 71850-09-4  | Max. 500.00  | 30.00  | mg/kg | ND                   |
| Sum   |             | Max. 1000.00 | -      | mg/kg | ND                   |

### Residual Solvent (ISO 16189/13)

Test Method : ISO 16189/13, extration with organic solvent, analysis was performed by GC-MS.

| Test Item(s)                 | CAS-NO.  | Limit        | RL    | Unit  | Result<br><b>001</b> |
|------------------------------|----------|--------------|-------|-------|----------------------|
| Dimethylacetamida (DMAC)     | 127-19-5 | Max. 1000.00 | 50.00 | mg/kg | ND                   |
| Dimethylformamide (DMFA)     | 68-12-2  | Max. 500.00  | 50.00 | mg/kg | ND                   |
| Formamide                    | 75-12-7  | Max. 1000.00 | 50.00 | mg/kg | ND                   |
| N-methyl-2-pyrrolidone (NMP) | 872-50-4 | Max. 1000.00 | 50.00 | mg/kg | ND                   |

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## Test Report

No. BR2301110 Rev. 0

Date: Barueri, 18 Apr 2023

Page 6 of 6

### Remarks :

- (1) RL = Reporting Limit
- (2) ND = Not Detected ( < RL )
- (3) "-" = Not Analyzed / Not Applicable
- (4) "--" = Analysis in Process
- (5) 1 mg/kg = 0.0001%
- (6) mg/kg = ppm

### Comments :

The reported results refer only to the samples submitted to the tests. SGS is not responsible for information regarding the composition of the sample and its manufacturing data. These are the sole responsibility of the customer and are not part of the service scope of SGS do Brasil LTDA.

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The Decision Rule defined by SGS states that the uncertainty of measurement will not be considered in the Verdict (declaration of conformity) when indicated in the test report.

**WARNING: The opinions and interpretations expressed below are based on the results obtained from the item tested, applicable only to the tests where the specification parameters are included in this report.**

### Summary of Test Result:

| Test Parameter  | Test Method   | Evaluation |
|---|---|------------|
| Total Heavy Metals  | DIN EN 16711-1:2016, Analysis was conducted by ICP-MS   | PASS       |
| Non-Metal Products  | With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.                              | PASS       |
| Nonylphenol (NP) and Octylphenol (OP)                               | Sample preparation by solvent extraction (EN ISO 21084: 2019), analysis performed by GC-MS.           | PASS       |
| Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) | Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-MS.              | PASS       |
| Determination of Bisphenol  | Extraction: 1 g sample / 20 ml THF, sonication for 60 minutes at 60°C, analysis with LC/MS            | PASS       |
| Polycyclic aromatic hydrocarbons (PAH)                              | With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.                               | PASS       |
| Phthalates  | With reference to ISO 14389:2014; Analysis was performed by GC-MS/CPSC Method CPSC-CH-C1001.09.4:2018 | PASS       |
| Residual Solvent (ISO 16189/13)                                     | ISO 16189/13, extration with organic solvent, analysis was performed by GC-MS.                        | PASS       |

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

The assay were conducted in the laboratory in Brazil, located at the address cited at the bottom of this report.