



## Test Report

No. BR2205090 Rev. 0

Date: Barueri, 06 Dec 2022

Page 1 of 6

TACOSOLA BORRACHAS LTDA  
ROD BR-116  
7729  
KM: 36;  
NOVO HAMBURGO, RS 93351000  
BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: EVA PADRÃO TACOSOLA

SGS Order No. : 400000000554  
Total of Sample : 3 SAMPLES  
Lot Number : SEM COR  
Test Product : EVA MATERIALS  
Mix : YES

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

Proposal Number : C&P PR22-298104 REV00  
Sample Receiving Date : 23 Nov 2022  
Test Performing Period : 24 Nov 2022 - 05 Dec 2022  
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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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. BR2205090 Rev. 0

Date: Barueri, 06 Dec 2022

Page 3 of 6

Test Results :

Test Part Description :

| Item No. | SGS Sample ID | Description         |
|----------|---------------|---------------------|
| 1        | BR2205090.001 | EVA PADRÃO TACOSOLA |

### 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 | -     | 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  | Max. 1.00 | 1.00 | mg/kg | ND     |
| Bisphenol-S (BPS)   | 80-09-1   | Max. 1.00 | 1.00 | mg/kg | ND     |

Notes :

Bisphenol-AF (BPAF) without restriction

### Phthalates

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

| Test Item(s) | CAS-NO. | Limit | RL | Unit | Result |
|--------------|---------|-------|----|------|--------|
|--------------|---------|-------|----|------|--------|

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## Test Report

No. BR2205090 Rev. 0

Date: Barueri, 06 Dec 2022

Page 4 of 6

| Test Item(s)  | CAS-NO.     | Limit        | RL     | Unit  | Result |
|---|-------------|--------------|--------|-------|--------|
| 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, extraction with organic solvent, analysis was performed by GC-MS.

| Test Item(s)                 | CAS-NO.  | Limit        | RL    | Unit  | Result |
|------------------------------|----------|--------------|-------|-------|--------|
| 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     |

### Polycyclic aromatic hydrocarbons (PAH)

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## Test Report

No. BR2205090 Rev. 0

Date: Barueri, 06 Dec 2022

Page 5 of 6

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> | <u>Result</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       | ND            |
| 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   | -         | mg/kg       | ND            |

### Total Heavy Metals

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

| <u>Test Item(s)</u> | <u>CAS-NO.</u> | <u>Limit</u> | <u>RL</u> | <u>Unit</u> | <u>Result</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> | <u>Result</u> |
|---------------------|--------------|-----------|-------------|---------------|
| Lead (Pb)           | Max. 90.00   | 10.00     | mg/kg       | ND            |

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**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       |
| 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, extraction with organic solvent, analysis was performed by GC-MS.                       | PASS       |
| Polycyclic aromatic hydrocarbons (PAH)                              | With reference to AfPS GS 2019:01 PAK. 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.

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