**PARAFIX INDUSTRIA E COMERCIO DE FITAS ADESIVAS LTDA**
**AV DAS INDUSTRIAS**
**1855**
**VINHEDO, SP 13288163**
**BRAZIL**

The following sample(s) was/were submitted and identified on behalf of the buyer as: Aplix 400 102MM Branco e Preto; Aplix 400 102MM Branco; Aplix 400 102MM Preto

| | |
|---|---|
| SGS Order No. : | 400000006007 |
| Total of Sample : | 4 SAMPLE |
| Sample Number : | BR2301636.001 |
| Component No. : | 1 |
| Sample Description : | Aplix 400 102MM Branco e Preto |
| Material Name : | BLACK AND WHITE STICKERS |
| Colour : | PRETO/ BRANCO |
| Remark : | N/A |
| Project : | VEJA |
| Test Product : | SYNTHETIC FIBERS/ PAINTS & FINISHING PRODUCTS |
| Mix : | YES |
| Colors : | PRETO/ BRANCO |
| 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 : | YES |
| Sample based on PU : | NO |
| Sample Number : | BR2301636.002 |
| Component No. : | 2 |
| Sample Description : | Aplix 400 102MM Branco |
| Material Name : | WHITE STICKERS |
| Colour : | BRANCO |
| Remark : | N/A |
| Sample Number : | BR2301636.003 |
| Component No. : | 3 |
| Sample Description : | Aplix 400 102MM Preto |
| Material Name : | BLACK STICKERS |
| Colour : | PRETO |
| Remark : | N/A |

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

| | |
|---|---|
| Proposal Number : | C&P PR23-336160 REV01 |
| Sample Receiving Date : | 30 May 2023 |

| | |
|---|---|
| Test Performing Period : | 30 May 2023 - 12 Jun 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 Responsability : | Alessandra Shimizu - Laboratory Manager CRQ 04245592 |

**Component Lis/List of Materials :**

| Sample No. | Component No. | Description | Material | Colour | Remark |
|---|---|---|---|---|---|
| BR2301636.001 | 1 | Aplix 400 102MM Branco e Preto | BLACK AND WHITE STICKERS | PRETO/ BRANCO | N/A |
| BR2301636.002 | 2 | Aplix 400 102MM Branco | WHITE STICKERS | BRANCO | N/A |
| BR2301636.003 | 3 | Aplix 400 102MM Preto | BLACK STICKERS | PRETO | N/A |

**Summary of Test Result:**

| Test Parameter | Test Method | Conclusion |
|---|---|---|
| pH Value | With reference to BS ISO 3071:2020. | PASS |
| Extractable Heavy Metal | DIN EN 16711-2:2016,Analysis was conducted by ICP-MS | PASS |
| Monomer - Vinyl Chloride | With reference to EN ISO 6401:2008. Analysis was conducet by headspace GC-MS. | PASS |
| 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 |
| AZO Dyes | With reference to EN ISO 14362-1:2017 & EN ISO 14362-3: 2017, analysis was performed with GC-MS/LC-DAD. | PASS |
| Determination of Bisphenol | Extraction: 1 g sample / 20 ml THF, sonication for 60 minutes at 60°C, analysis with LC/MS | PASS |
| Formaldehyde | With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis. | PASS |
| Disperse Dyes | With reference to DIN 54231:2005, analysis was performed by HPLC-DAD-MSD. | PASS |

| | | |
|---|---|---|
| Chlorinated Benzenes and Toluenes | With reference to EN17137:2018; analysis was performed by GC-MS. | PASS |
| Organotin Compounds | With reference to ISO 16179:2012, 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 |
| Quinoline | DIN 54231:2005,Analysis was conducted by LCMS/DAD | PASS |
| Phthalates | With reference to ISO 14389:2014; Analysis was performed by GC-MS/CPSC Method CPSC-CH-C1001.09.4:2018 | PASS |

Sample Photo :


BR2301636

SGS authenticate the photo on original report only

Signed for and on behalf of
SGS do Brasil Ltda.

Alessandra Shimizu
Laboratory Manager CRQ 04245592

Test Results :

## 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. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 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. 10.00 | 10.00 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## 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. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Nonylphenol ethoxylates (NPEO) | 9016-45-9 | - | 20.00 | mg/kg | ND |
| Octylphenol ethoxylates (OPEO) | 9002-93-1 | - | 20.00 | mg/kg | ND |
| Sum of (NP,OP, NPEO and OPEO ) | | Max. 100.00 | 20.00 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## AZO Dyes

Test Method : With reference to EN ISO 14362-1:2017 & EN ISO 14362-3: 2017, analysis was performed with GC-MS/LC-DAD.

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 4-Aminobiphenyl | 92-67-1 | Max. 20.0 | 5.0 | mg/kg | ND |
| Benzidine | 92-87-5 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4-chloro-o-toluidine | 95-69-2 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2-naphthylamine | 91-59-8 | Max. 20.0 | 5.0 | mg/kg | ND |
| o-aminoazotoluene | 97-56-3 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2-amino-4-nitrotoluene | 99-55-8 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4-chloroaniline | 106-47-8 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2,4-diamino-anisole | 615-05-4 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4,4'-diaminodiphenylmethane | 101-77-9 | Max. 20.0 | 5.0 | mg/kg | ND |
| 3,3'-dichlorobenzidine | 91-94-1 | Max. 20.0 | 5.0 | mg/kg | ND |
| 3.3'-dimethoxybenzidine | 119-90-4 | Max. 20.0 | 5.0 | mg/kg | ND |
| 3,3'-dimethylbenzidine | 119-93-7 | Max. 20.0 | 5.0 | mg/kg | ND |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | Max. 20.0 | 5.0 | mg/kg | ND |

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| p-cresidine | 120-71-8 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4.4'-methylene-bis-(2-chloroaniline) | 101-14-4 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4,4'-oxydianiline | 101-80-4 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4,4'-thiodianiline | 139-65-1 | Max. 20.0 | 5.0 | mg/kg | ND |
| o-toluidine | 95-53-4 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2,4-Toluylendiamine | 95-80-7 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2,4,5-trimethylaniline | 137-17-7 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4-aminoazobenzene | 60-09-3 | Max. 20.0 | 5.0 | mg/kg | ND |
| O-Anisidine | 90-04-0 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2,4-Xylidine | 95-68-1 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2,6-Xylidine | 87-62-7 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4-Chloro-o-toluidunium chloride | 3165-93-3 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2-Naphthylammoniumacetate | 553-00-4 | Max. 20.0 | 5.0 | mg/kg | ND |
| 4-Methoxy-m-phenylene diammonium sulphate | 39156-41-7 | Max. 20.0 | 5.0 | mg/kg | ND |
| 2,4,5-Trimethylamine hydrochloride | 21436-97-5 | Max. 20.0 | 5.0 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

Notes: Results over 1/2 or 1/3 of test requirement indicate a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
4-Aminodiphenyl CAS 92-67-1, 2-Naphtylamine CAS 91-59-8 and 4-Methoxy-m-phenylene-diamine CAS 615-05-4 can be indirectly generated from some colorants which do not contain these amines azo bound. 4,4'-methylene-dianiline CAS 101-77-9 and 2,4-toluylen-diamine CAS 95-80-7 may be released from polyurethane or chemical fixing agent. The use of banned azo colorants cannot be reliably ascertained without additional information.
The ISO 14362-1:2017 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not detected by mentioned test method, test result for 4-aminoazobenzene CAS 60-09-3 is considered as 'not detected'. Otherwise, the test method of ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

## 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. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 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 | 2.42 |
| **Conclusion** | | | | | **PASS** |

Notes :

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

## Formaldehyde

Test Method : With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis.

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Formaldehyde | 50-00-0 | Max. 16.00 | 16.00 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## Disperse Dyes

Test Method : With reference to DIN 54231:2005, analysis was performed by HPLC-DAD-MSD.

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Navy Blue | 118685-33-9 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Blue 1 | 2475-45-8 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Blue 3 | 2475-46-9 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Blue 7 | 3179-90-6 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Blue 26 | 3860-63-7 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Blue 106 | 12223-01-7 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Blue 124 | 61951-51-7 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Brown 1 | 23355-64-8 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Orange 1 | 2581-69-3 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Orange 3 | 730-40-5 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Orange 11 | 82-28-0 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Orange37/59/76 | 51811-42-8 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Orange37/59/76 | 12223-33-5 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Orange37/59/76 | 13301-61-6 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Orange149 | 85136-74-9 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Red 1 | 2872-52-8 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Red 11 | 2872-48-2 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Red 17 | 3179-89-3 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Red 151 | 61968-47-6 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Yellow 1 | 119-15-3 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Yellow 3 | 2832-40-8 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Yellow 7 | 6300-37-4 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Yellow 9 | 6373-73-5 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Yellow 23 | 6250-23-3 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Yellow 39 | 12236-29-2 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Yellow 49 | 54824-37-2 | Max. 50.0 | 15.0 | mg/kg | ND |

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Disperse Yellow 56 | 54077-16-6 | Max. 50.0 | 15.0 | mg/kg | ND |
| Acid Red 26 | 3761-53-3 | Max. 50.0 | 15.0 | mg/kg | ND |
| Basic Red 9 | 569-61-9 | Max. 50.0 | 15.0 | mg/kg | ND |
| Basic Green 4 | 10309-95-2 | Max. 50.0 | 15.0 | mg/kg | ND |
| Basic Green 4 | 2437-29-8 | Max. 50.0 | 15.0 | mg/kg | ND |
| Basic Green 4 | 569-64-2 | Max. 50.0 | 15.0 | mg/kg | ND |
| Basic Violet 3 | 548-62-9 | Max. 50.0 | 15.0 | mg/kg | ND |
| Basic Violet 14 | 632-99-5 | Max. 50.0 | 15.0 | mg/kg | ND |
| Basic Blue 26 | 2580-56-5 | Max. 50.0 | 15.0 | mg/kg | ND |
| Direct Black 38 | 1937-37-7 | Max. 50.0 | 15.0 | mg/kg | ND |
| Direct Blue 6 | 2602-46-2 | Max. 50.0 | 15.0 | mg/kg | ND |
| Direct Red 28 | 573-58-0 | Max. 50.0 | 15.0 | mg/kg | ND |
| Direct brown 95 | 16071-86-6 | Max. 50.0 | 15.0 | mg/kg | ND |
| Solvent Yellow 2 | 60-11-7 | Max. 50.0 | 15.0 | mg/kg | ND |
| Solvent Blue 4 | 6786-83-0 | Max. 50.0 | 15.0 | mg/kg | ND |
| 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol | 561-41-1 | Max. 50.0 | 15.0 | mg/kg | ND |
| Disperse Blue 102 | 12222-97-8 | Max. 50.0 | 15.0 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## pH Value

Test Method : With reference to BS ISO 3071:2020.

| Test Item(s) | Client Requeriment | RL | Unit | Result 002 |
|---|---|---|---|---|
| pH Value of Aqueous Extract | 4.00 - 7.50 | - | - | 5.64 |
| **Conclusion** | | | | **PASS** |

| Test Item(s) | Client Requeriment | RL | Unit | Result 003 |
|---|---|---|---|---|
| pH Value of Aqueous Extract | 4.00 - 7.50 | - | - | 4.50 |
| **Conclusion** | | | | **PASS** |

## Chlorinated Benzenes and Toluenes

Test Method : With reference to EN17137:2018; analysis was performed by GC-MS.

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 2-Chlorotoluene | 95-49-8 | - | 0.2 | mg/kg | ND |

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 3-Chlorotoluene | 108-41-8 | - | 0.2 | mg/kg | ND |
| 4-Chlorotoluene | 106-43-4 | - | 0.2 | mg/kg | ND |
| 2,3-Dichlorotoluene | 32768-54-0 | - | 0.2 | mg/kg | ND |
| 2,4-Dichlorotoluene | 95-73-8 | - | 0.2 | mg/kg | ND |
| 2,5-Dichlorotoluene | 19398-61-9 | - | 0.2 | mg/kg | ND |
| 2,6-Dichlorotoluene | 118-69-4 | - | 0.2 | mg/kg | ND |
| 3,4-Dichlorotoluene | 95-75-0 | - | 0.2 | mg/kg | ND |
| 2,3,6-Trichlorotoluene | 2077-46-5 | - | 0.2 | mg/kg | ND |
| 2,4,5-Trichlorotoluene | 6639-30-1 | - | 0.2 | mg/kg | ND |
| 2,3,4,5-Tetrachlorotoluene | 76057-12-0 | - | 0.2 | mg/kg | ND |
| 2,3,4,6-Tetrachlorotoluene | 875-40-1 | - | 0.2 | mg/kg | ND |
| 2,3,5,6- Tetrachlorotoluene | 1006-31-1 | - | 0.2 | mg/kg | ND |
| Pentachlorotoluene | 877-11-2 | - | 0.2 | mg/kg | ND |
| 1,3-Dichlorobenzene | 541-73-1 | - | 0.2 | mg/kg | ND |
| 1,4-Dichlorobenzene | 106-46-7 | - | 0.2 | mg/kg | ND |
| 1,2,3-Trichlorobenzene | 87-61-6 | - | 0.2 | mg/kg | ND |
| 1,2,4-Trichlorobenzene | 120-82-1 | - | 0.2 | mg/kg | ND |
| 1,3,5-Trichlorobenzene | 108-70-3 | - | 0.2 | mg/kg | ND |
| 1,2,3,4-Tetrachlorobenzene | 634-66-2 | - | 0.2 | mg/kg | ND |
| 1,2,3,5-Tetrachlorobenzene | 634-90-2 | - | 0.2 | mg/kg | ND |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | - | 0.2 | mg/kg | ND |
| Pentachlorobenzene | 608-93-5 | - | 0.2 | mg/kg | ND |
| Hexachlorobenzene | 118-74-1 | - | 0.2 | mg/kg | ND |
| p-Chlorobenzotrichloride | 5216-25-1 | - | 0.2 | mg/kg | ND |
| Benzotrichloride | 98-07-7 | - | 0.2 | mg/kg | ND |
| Benzyl Chloride | 100-44-7 | - | 0.2 | mg/kg | ND |
| 1,2-Dichlorobenzene | 95-50-1 | Max. 10.0 | 1.0 | mg/kg | ND |
| Sum | | Max. 1.0 | - | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## Extractable Heavy Metal

Test Method : DIN EN 16711-2:2016,Analysis was conducted by ICP-MS

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Antimony (Sb) | 7440-36-0 | Max. 30.000 | 3.000 | mg/kg | ND |
| Arsenic (As) | 7440-38-2 | Max. 0.200 | 0.100 | mg/kg | ND |

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Barium (Ba) | 7440-39-3 | Max. 1000.000 | 100.000 | mg/kg | ND |
| Cadmium (Cd) | 7440-43-9 | Max. 0.100 | 0.050 | mg/kg | ND |
| Chromium (Cr) | 7440-47-3 | Max. 1.000 | 0.500 | mg/kg | ND |
| Cobalt (Co) | 7440-48-4 | Max. 1.000 | 0.500 | mg/kg | ND |
| Copper (Cu) | 7440-50-8 | Max. 25.000 | 5.000 | mg/kg | ND |
| Lead (Pb) | 7439-92-1 | Max. 0.200 | 0.100 | mg/kg | ND |
| Mercury (Hg) | 7439-97-6 | Max. 0.020 | 0.020 | mg/kg | ND |
| Selenium (Se) | 7782-49-2 | Max. 500.000 | 50.000 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## Monomer - Vinyl Chloride

Test Method : With reference to EN ISO 6401:2008. Analysis was conducet by headspace GC-MS.

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Vinyl Chloride | 75-01-4 | Max. 1 | 1 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## Organotin Compounds

Test Method : With reference to ISO 16179:2012, analysis was performed by GC-MS

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Dibutyl tin (DBT) | 1002-53-5 | Max. 1.00 | 0.10 | mg/kg | ND |
| Dioctyl tin (DOT) | 15231-44-4 | Max. 1.00 | 0.10 | mg/kg | ND |
| Monobutyl tin (MBT) | 78763-54-9 | Max. 1.00 | 0.10 | mg/kg | ND |
| Tricyclohexyl tin (TCyHT) | 892-20-6 | Max. 1.00 | 0.10 | mg/kg | ND |
| Trimethyltin (TMT) | | Max. 1.00 | 0.10 | mg/kg | ND |
| Trioctyltin (TOT) | 869-59-0 | Max. 1.00 | 0.10 | mg/kg | ND |
| Tripropyltin(TPT) | | Max. 1.00 | 0.10 | mg/kg | ND |
| Tributyl tin (TBT) | 688-73-3 | Max. 0.10 | 0.10 | mg/kg | ND |
| Triphenyl tin (TPhT) | 892-20-6 | Max. 0.50 | 0.10 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## Polycyclic aromatic hydrocarbons (PAH)

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

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 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 |
| **Conclusion** | | | | | **PASS** |

## Quinoline

Test Method : DIN 54231:2005,Analysis was conducted by LCMS/DAD

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| Quinoline | 91-22-6 | Max. 50 | 10 | mg/kg | ND |
| **Conclusion** | | | | | **PASS** |

## 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. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 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 |

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 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 |
| **Conclusion** | | | | | **PASS** |

## Total Heavy Metals

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

| Test Item(s) | CAS-NO. | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|---|
| 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 |
| **Conclusion** | | | | | **PASS** |

## Non-Metal Products

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

| Test Item(s) | Client Requeriment | RL | Unit | Result 001 |
|---|---|---|---|---|
| Lead (Pb) | Max. 40.00 | 10.00 | mg/kg | ND |
| **Conclusion** | | | | **PASS** |

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.


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.**

*** End of Report ***

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