

ESFERA INDUSTRIA GRAFICA LTDA - EPP
AV VEREADOR ADAO RODRIGUES DE OLIVEIRA
3024
NOVO HAMBURGO, RS 93334290
BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: ETIQUETA ADESIVA BOPP

SGS Order No. : 400000008428
 Total of Sample : 1 SAMPLE
 Sample Number : BR2302682.001
 Component No. : 1
 Sample Description : ETIQUETA ADESIVA BOPP
 Material Name : TAG
 Colour : BLACK
 Remark : N/A
 Lot Number : 2023/08
 Test Packaging : PAPER and CARDBOARD
 Sample composed of fibers of plant origin : YES
 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 PR23-1425151 REV00
 Sample Receiving Date : 22 Aug 2023
 Test Performing Period : 22 Aug 2023 - 08 Sep 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

Component Lis/List of Materials :

| Sample No. | Component No. | Description | Material | Colour | Remark |
|---------------|---------------|-----------------------|----------|--------|--------|
| BR2302682.001 | 1 | ETIQUETA ADESIVA BOPP | TAG | BLACK | N/A |

Summary of Test Result:

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| Test Parameter | Test Method | Conclusion |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|
| Total Heavy Metals | DIN EN 16711-1:2016, Analysis was conducted by ICP-MS | PASS |
| Determinations of hexavalent chromium in polymers and electronics by colorimetric method | With reference to IEC 62321-7-2:2017; analysis was performed by UV-VIS. | 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 |
| Formaldehyde | With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis. | PASS |

Sample Photo :



SGS authenticate the photo on original report only

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Signed for and on behalf of
SGS do Brasil Ltda.



Alessandra Shimizu
Laboratory Manager CRQ 04245592

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Test Results :

Nonylphenol (NP) and Octylphenol (OP)

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

| <u>Test Item(s)</u> | <u>CAS-NO.</u> | <u>Client</u> <u>Requeriment</u> | <u>RL</u> | <u>Unit</u> | <u>Result</u> <u>001</u> |
|-----------------------|----------------|-------------------------------------|-----------|-------------|-----------------------------|
| 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.

| <u>Test Item(s)</u> | <u>CAS-NO.</u> | <u>Client</u> <u>Requeriment</u> | <u>RL</u> | <u>Unit</u> | <u>Result</u> <u>001</u> |
|--------------------------------|----------------|-------------------------------------|-----------|-------------|-----------------------------|
| 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 |
| Sum of NPEO and OPEO | | Max. 100.00 | - | mg/kg | ND |

Formaldehyde

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

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

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>Client</u> <u>Requeriment</u> | <u>RL</u> | <u>Unit</u> | <u>Result</u> <u>001</u> |
|---------------------|----------------|-------------------------------------|-----------|-------------|-----------------------------|
| Lead (Pb) | 7439-92-1 | - | 0.13 | 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 |
| Chromium (Cr) | 7440-47-3 | - | 0.13 | mg/kg | 2.89 |
| Sum | | - | - | mg/kg | 2.89 |

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| <u>Test Item(s)</u> | <u>CAS-NO.</u> | <u>Client Requeriment</u> | <u>RL</u> | <u>Unit</u> | <u>Result</u> |
|---------------------|----------------|---------------------------|-----------|-------------|---------------|
| Conclusion | | | | | PASS |

Determinations of hexavalent chromium in polymers and eletronic by colorimetric method

Test Method : With reference to IEC 62321-7-2:2017; analysis was performed by UV-VIS.

| <u>Test Item(s)</u> | <u>Client Requeriment</u> | <u>RL</u> | <u>Unit</u> | <u>Result</u> |
|----------------------------|---------------------------|-----------|-------------|---------------|
| Hexavalent Chromium - CrVI | Max. 3.00 | 3.00 | 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.

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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.

*** 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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