

Requirer: ENVIART GRAF LTDA

Address: Rua Luiz Roberto Prezzi, 214 – Sapiranga – RS.

Date of receipt of sample: 03/23/2022.

Sample characterization: 01 sample of material, identified by the customer as: "RIBBON MISTO TRX45 OP: 077943".

Selection of samples: up to the requirer.

Sampling: up to the laboratory



| TEST | RESULTS | | | | |
|--|---------|------|-------|--------------------------------|------------|
| | Results | MQL | Unit | Method | Evaluation |
| 1 – Alkylphenols (NP/OP) | <10.0 | 10.0 | mg/kg | ISO 18218-2:2019 | Pass |
| 2 – Ethoxylates alkylphenols (NPEO/OPEO) | <10.0 | 10.0 | mg/kg | ISO 18218-2:2019 | Pass |
| 3 – Total Lead | <3.5 | 3.5 | mg/kg | BS EN 16711-1:2015 | Pass |
| 4 – Total Cadmium | <3.5 | 3.5 | mg/kg | BS EN 16711-1:2015 | Pass |
| 5 – Total Mercury | <0.10 | 0.10 | mg/kg | BS EN 16711-1:2015 | Pass |
| 6 – Total Chromium | <3.5 | 3.5 | mg/kg | BS EN 16711-1:2015 | Pass |
| 7 – Formaldehyde | 1.22 | 0.50 | mg/kg | EN 1541:2001 | Pass |
| 8 – Hexavalent Chromium | <3.0 | <3.0 | mg/kg | IEC 62321-7-2:2017 | Pass |
| 9 – Bisfenol A (BPA) | <1.0 | 1.0 | mg/kg | Método AFIRM -Bisfenol A (BPA) | Pass |
| 10 – Phtalates | <50.0 | 50.0 | mg/kg | CPSC-CHC1001-09.4 (2018) | Pass |
| 11 – AZO Amines | <5.0 | 5.0 | mg/kg | ISO 14362-1:2017 | Pass |

Note 1: Evaluation according to Veja Limits – Maximum Allowed Limits according VEJA Restricted Substances Policy – September/2021.

Note 2: mg/kg = ppm

Note 3: MQL = Method Quantification Limit.

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| Alkylphenols (AP), Alkylphenol Ethoxylates (APEOs) including all isomers | CAS Number | Results | VEJA Limits (Maximum allowable concentration) | Laboratory Limits(Method quantification limit) |
|--|------------|---------|--|--|
| Nonylphenol (NP), mixed isomers | Several | <10.0 | Total: 100 ppm | 10.0 ppm (each) |
| Octylphenol (OP), mixed isomers | Several | <10.0 | | |
| Nonylphenol Ethoxylates (NPEOs) | Several | <10.0 | Total: 100 ppm | |
| Octylphenol Ethoxylates (OPEOs) | Several | <10.0 | | |

| Formaldehyde | CAS Number | Result | VEJA Limits (Maximum allowable concentration) | Laboratory Limits (Method quantification limit) |
|--------------|------------|--------|---|--|
| Formaldehyde | 50-00-0 | 1.22 | All, except packaging: 16 ppm Packaging: 150 ppm | 0.50 ppm |

| Heavy Metals | CAS Number | Results | VEJA Limits (Maximum allowable concentration) | Laboratory Limits (Method quantification limit) |
|---------------|------------|---------|--|--|
| Chromium (Cr) | 7440-47-3 | <3.5 | Total: 100 ppm | 3.5 ppm |
| Lead (Pb) | 7439-92-1 | <3.5 | | 3.5 ppm |
| Mercury (Hg) | 7439-97-6 | <0.10 | | 0.10 ppm |
| Cadmium (Cd) | 7440-43-9 | <3.5 | | 3.5 ppm |

| Bisphenols | CAS Number | Result | VEJA Limits (Maximum allowable concentration) | Laboratory Limits (Method quantification limit) |
|-------------------|------------|--------|--|--|
| Bisphenol-A (BPA) | 80-05-7 | <1.0 | 1 ppm | 1.0 ppm |

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| Phthalates | CAS Number | Results | VEJA Limits (Maximum allowable concentration) | Laboratory Limits (Method quantification limit) |
|---|--------------------------|---------|--|---|
| Di-isononylphthalate (DINP) | 28553-12-0 | <50.0 | Total: 1000 ppm 500 ppm (each) | 50.0 ppm (each) |
| Di-n-octylphthalate (DNOP) | 117-84-0 | <50.0 | | |
| Di(2-ethylhexyl)-phthalate (DEHP) | 117-81-7 | <50.0 | | |
| Diisodecylphthalate (DIDP) | 26761-40-0 | <50.0 | | |
| Butylbenzylphthalate (BBP) | 85-68-7 | <50.0 | | |
| Dibutylphthalate (DBP) | 84-74-2 | <50.0 | | |
| Diisobutylphthalate (DIBP) | 84-69-5 | <50.0 | | |
| Di-n-hexylphthalate (DnHP) | 84-75-3 | <50.0 | | |
| Diethylphthalate (DEP) | 84-66-2 | <50.0 | | |
| Dimethylphthalate (DMP) | 131-11-3 | <50.0 | | |
| Di-n-pentyl phthalate (DPENP) | 131-18-0 | <50.0 | | |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | <50.0 | | |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 71888-89-6 | <50.0 | | |
| Bis(2-methoxyethyl) phthalate | 117-82-8 | <50.0 | | |
| Diisopentyl phthalate (DIPP) | 605-50-5 | <50.0 | | |
| Dipropyl phthalate (DPRP) | 131-16-8 | <50.0 | | |
| Diisooctyl phthalate (DIOP) | 27554-26-3 | <50.0 | | |
| Diisoexyl phthalate (DIHxP) | 71850-09-4 | <50.0 | | |
| Di-hexyl phthalate, branched and linear (DHxP) | 68515-50-4 | <50.0 | | |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | <50.0 | | |
| 1,2-Benzenedicarboxylic acid | 84777-06-0 | <50.0 | | |
| 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters | 68648-93-1 68515-51-5 | <50.0 | | |
| n-Pentyl-isopentylphthalate (nPIPP) | 776297-69-9 | <50.0 | | |

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| Azo-amines | CAS Number | Results | VEJA Limits (Maximum allowable concentration) | Laboratory Limits (Method quantification limit) |
|---|------------|---------|--|--|
| 4-Aminobiphenyl | 92-67-1 | <5.0 | 20 ppm (each) | 5.0 ppm (each) |
| Benzidine | 92-87-5 | <5.0 | | |
| 4-Chlor-o-toluidine | 95-69-2 | <5.0 | | |
| 2-Naphthylamine | 91-59-8 | <5.0 | | |
| o-Aminoazotoluene | 97-56-3 | <5.0 | | |
| 2-Amino-4-nitrotoluene | 99-55-8 | <5.0 | | |
| p-Chloraniline | 106-47-8 | <5.0 | | |
| 2,4-Diaminoanisole | 615-05-4 | <5.0 | | |
| 4,4'-Diaminodiphenylmethane | 101-77-9 | <5.0 | | |
| 3,3'-Dichlorobenzidine | 91-94-1 | <5.0 | | |
| 3,3'-Dimethoxybenzidine | 119-90-4 | <5.0 | | |
| 3,3'-Dimethylbenzidine | 119-93-7 | <5.0 | | |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | <5.0 | | |
| p-Cresidine | 120-71-8 | <5.0 | | |
| 4,4'-Methylen-bis(2-chloraniline) | 101-14-4 | <5.0 | | |
| 4,4'-Oxydianiline | 101-80-4 | <5.0 | | |
| 4,4'-Thiodianiline | 139-65-1 | <5.0 | | |
| o-Toluidine | 95-53-4 | <5.0 | | |
| 2,4-Toluylenediamine | 95-80-7 | <5.0 | | |
| 2,4,5-Trimethylaniline | 137-17-7 | <5.0 | | |
| 2,4 Xylidine | 95-68-1 | <5.0 | | |
| 2,6 Xylidine | 87-62-7 | <5.0 | | |
| 2-Methoxyaniline (= o-Anisidine) | 90-04-0 | <5.0 | | |
| p-Aminoazobenzene | 60-09-3 | <5.0 | | |
| 4-Chloro-o-toluidinium Chloride | 3165-93-3 | <5.0 | | |
| 2-Naphthylammoniumacetate | 553-00-4 | <5.0 | | |
| 4-Methoxy-m-phenylene Diammonium Sulphate | 39156-41-7 | <5.0 | | |
| 2,4,5-trimethylaniline hydrochloride | 21436-97-5 | <5.0 | | |

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| Hexavalent Chromium | CAS Number | Result | VEJA Limits (Maximum allowable concentration) | Laboratory Limits (Method quantification limit) |
|---------------------|------------|--------|--|--|
| Hexavalent Chromium | 18540-29-9 | <3.0 | 3 ppm | 3.0 ppm |

EXAMINATION PERFORMED: 03/23/2022 to 04/07/2022.

TRACKING EQUIPMENT USED FOR TEST:

- NI 102 Balance, with calibration certificate RBC 006060/2021 emitted by INSTITUTO SENAI DE INOVAÇÃO EM METALMECÂNICA-CETEMP and valid until 05/2023.

Estância Velha, April 12th, 2022

Technical Analyst
Lucas Zoldan
CRQ 05202050

Revision 02
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