

**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	MLQ	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:** MLQ = 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 12<sup>th</sup>, 2022

Technical Analyst  
Lucas Zoldan  
CRQ 05202050

Revision 02  
BRC

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