

**Requirer:** V. FAIR TRADE COM EXP DE CALÇADOS E ACESSÓRIOS LTDAE BORRACHAS.

**Address:** Rua 17 de abril, 270– Campo Bom –RS.

**Date of receipt of sample:** 11/19/2021.

**Sample characterization:** 01 sample of material, identified by the customer as: “NUMBERING LABEL/TRANSFER SUPPLIER: ART LASER”.

**Selection of samples:** up to the requirer.

**Sampling:** up to the laboratory.



TEST	RESULTS					
	Results	Quantification Limit	Unit	Procedure	Veja Limits	Evaluation
Sample 1/ FQ 5918/21 “NUMBERING LABEL / TRANSFER SUPPLIER: ART LASER”						
1 – Polyaromatic Hydrocarbons – PAHs <sup>1</sup>	<0.20	0.20	mg/kg	AFPS-GS-2019-01-PAK	No individual restriction(*) 0.5(**)	Pass
2– Alkylphenols (NP/OP)	<10.0	10.0	mg/kg	ISO 18218-2:2019	100	Pass
3– Ethoxylates alkylphenols (NPEO/OPEO)	<10.0	10.0	mg/kg	ISO 18218-2:2019	100	Pass
4 – Residual Solvents <sup>2</sup>	<10.0	10.0	mg/kg	ISO/TS 16189:2013	500(*) 1000(**)	Pass
5 – Total Lead	<3.5	3.5	mg/kg	CPSC-CH-E1002-08.3 (2012)	90	Pass
6 – Total Arsenic	<3.5	3.5	mg/kg	BS EN 16711-1:2015	10	Pass
7 – Total Mercury	<0.1	0.1	mg/kg	BS EN 16711-1:2015	0.5	Pass
8 – Total Cadmium	<3.5	3.5	mg/kg	BS EN 16711-1:2015	40	Pass
9 – Bisfenol A (BPA)	<1.0	1.0	mg/kg	Método AFIRM - Bisfenol A (BPA)	1.0	Pass
10 – Phtalates <sup>3</sup>	<50	50	mg/kg	CPSC-CHC1001-09.4(2018)	500 (each)	Pass

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TEST	RESULTS					
	Results	Quantification Limit	Unit	Procedure	Veja Limits	Evaluation
Sample 1/ FQ 5918/21 "NUMBERING LABEL / TRANSFER SUPPLIER: ART LASER"						
11 – Organotins <sup>4</sup>	<0.10	0.10	mg/kg	ABNT ISO/TS16179:2017	1(*) 0.5(**) 0.1(***)	Pass
11.1 – Dibutyltin (DBT)	0.12	0.10	mg/kg	ABNT ISO/TS16179:2017	1	Pass
12 – Formaldehyde	5.48	0.50	mg/kg	EN 1541:2001	16	Pass

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

**Note 2:** mg/kg = ppm

<sup>1</sup> Analysed Polycyclic Aromatic Hydrocarbons (PAHs): Acenaphthene, Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Fluorene, Fluoranthene, Indeno(1,2,3-cd) pyrene, Naphthalene, Phenanthrene, Pyrene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo[j]fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene.

(\*) Limits for each Polycyclic Aromatic Hydrocarbons (PAHs): Acenaphthene, Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Fluorene, Fluoranthene, Indeno(1,2,3-cd) pyrene, Naphthalene, Phenanthrene, Pyrene.

(\*\*) Limits for each Polycyclic Aromatic Hydrocarbons (PAHs): Benzo(a)anthracene, Benzo(a)pyrene, Benzo[j]fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene.

Limit for the sum of all polycyclic aromatic hydrocarbons (PAHs): 10 ppm.

<sup>2</sup> Analysed Solvents/Residuals: Dimethylformamide (DMFa), Formamide, Dimethylacetamide (DMAC), N-Methyl-2-pyrrolidone (NMP).

(\*) Limits for Dimethylformamide (DMFa): 500 ppm

(\*\*) Limits for Formamide, Dimethylacetamide (DMAC), N-Methyl-2-pyrrolidone (NMP): 1000 ppm (each).

<sup>3</sup> Analysed Phthalates: Di-isononylphthalate (DINP), Di-n-octylphthalate (DNOP), Di(2-ethylhexyl)-phthalate (DEHP), Diisodecylphthalate (DIDP), Butylbenzylphthalate (BBP), Dibutylphthalate (DBP), Diisobutylphthalate (DIBP), Di-n-hexylphthalate (DnHP), Diethylphthalate (DEP), Dimethylphthalate (DMP), Di-n-pentyl phthalate (DPENP), Dicyclohexyl phthalate (DCHP), 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich Bis(2-methoxyethyl) phthalate, Diisopentyl phthalate (DIPP), Dipropyl phthalate (DPRP), Diisooctyl phthalate (DIOP), Diisoexyl phthalate (DIHxP), Di-hexyl phthalate, branched and linear (DHxP) 1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP), 1,2-Benzenedicarboxylic acid 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 n-Pentyl-isopentylphthalate (nPIPP)

Limits for Phthalates: Total 1000 ppm.

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<sup>4</sup> Analysed Organotins: Dioctyltin (DOT), Monobutyltin (MBT), Tricyclohexyltin (TCyHT), Trimethyltin (TMT), Trioctyltin (TOT), Tripropyltin (TPT), Triphenyltin (TPhT), Tributyltin (TBT).

(\*) Limits for each Analysed Organotins: Dibutyltin (DBT), Dioctyltin (DOT), Monobutyltin (MBT), Tricyclohexyltin (TCyHT), Trimethyltin (TMT), Trioctyltin (TOT), Tripropyltin (TPT).

(\*\*) Limits for Analysed Organotin: Triphenyltin (TPhT).

(\*\*\*) Limits for Analysed Organotin: Tributyltin (TBT).

**EXAMINATION PERFORMED:** 11/19 to 12/06/2021.

**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, December 07<sup>th</sup>, 2021.

Technical Analyst  
Lucas Zoldan  
CRQ 05202050

Revision 02  
BRC

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