



Chemical
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Requirer: V. FAIR TRADE COM EXP DE CALÇADOS E ACESSÓRIOS LTDA

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

Date of receipt of sample: 05/17/2022.

Sample characterization: 01 sample of material, identified by the customer as: "PELEGO SINTÉTICO PET RECICLADO FORNECEDOR: PETTENATTI".

Selection of samples: up to the requirer.

Sampling: up to the laboratory.



TEST	RESULTS				
	Results	MQL	Unit	Method	Evaluation
1 – AZO Amines	<5.0	5.0	mg/kg	ISO 14362-1:2017 and ISO 14362-3:2017	Pass
2 – Alkylphenols (NP/OP)	<10.0	10.0	mg/kg	ISO 18218-2:2019	Pass
3 – Ethoxylates alkylphenols (NPEO/OPEO)	<10.0	10.0	mg/kg	ISO 18218-2:2019	Pass
4 – Chlorotoluenes and Chlorobenzenes	<0.20	0.20	mg/kg	DIN EN 17137:2019	Pass
5 – Total Lead	<3.5	3.5	mg/kg	CPSC-CH-E1002-08.3 (2012) Mod	Pass
6 – Total Arsenic	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
7 – Total Mercury	<0.10	0.10	mg/kg	BS EN 16711-1:2015	Pass
8 – Total Cadmium	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
9 – Quinoline	<10.0	10.0	mg/kg	DIN 54321:2005	Pass
10 – Formaldehyde	<0.50	0.50	mg/kg	ISO 14184-1:2011	Pass
11 – Soluble Cadmium	<0.05	0.05	mg/kg	BS EN 16711-2:2015	Pass
12 – Soluble Arsenic	<0.05	0.05	mg/kg	BS EN 16711-2:2015	Pass
13 – Soluble Selenium	<0.05	0.05	mg/kg	BS EN 16711-2:2015	Pass

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TEST	RESULTS				
	Results	MQL	Unit	Method	Evaluation
14 – Soluble Nickel	0.08	0.05	mg/kg	BS EN 16711-2:2015	Pass
15 – Soluble Mercury	<0.005	0.005	mg/kg	BS EN 16711-2:2015	Pass
16 – Soluble Copper	0.09	0.05	mg/kg	BS EN 16711-2:2015	Pass
17 – Soluble Cobalt	<0.05	0.05	mg/kg	BS EN 16711-2:2015	Pass
18 – Soluble Lead	<0.05	0.05	mg/kg	BS EN 16711-2:2015	Pass
19 – Soluble Barium	<0.05	0.05	mg/kg	BS EN 16711-2:2015	Pass
20 – Soluble Antimony	<0.05	0.05	mg/kg	BS EN 16711-2:2015	Pass
21 – Soluble Chromium	0.32	0.05	mg/kg	BS EN 16711-2:2015	Pass
22 – pH value	6.05	-	-	ISO 3071:2020	Pass
23 – Polyaromatic Hydrocarbons –PAHs	<0.20	0.20	mg/kg	ZEK 01.4-08:2011	Pass
24 – Organotin Compounds	<0.10	0.10	mg/kg	ABNT ISO/TS 16179:2017	Pass
25 – Bisfenol A (BPA)	<1.0	1.0	mg/kg	Método AFIRM -Bisfenol A (BPA)	Pass
26 – Phtalates	<50.0	50.0	mg/kg	CPSC-CHC1001-09.4 (2018) Mod	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		

Quinoline	CAS Number	Result	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Quinoline	91-22-5	<10.0	50 ppm	10.0 ppm

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

pH – Acidic & Alkaline Substances	CAS Number	Result	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
pH-value	Several	6.05	Textiles: 4.0–7.5 Leather: 3.5–7.0	-

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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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Heavy Metals	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Antimony (Sb)	7440-36-0	<0.05	Extracted: 30 ppm	Extracted: 0.05 ppm
Arsenic (As)	7440-38-2	<0.05	Extracted: 0,1 ppm	Extracted: 0.05 ppm
		<3.5	Total: 10 ppm	Total: 3.5 ppm Leather: 2.0 ppm
Barium (Ba)	7440-39-3	<0.05	Extracted: 1000 ppm	Extracted: 0.05 ppm
Cadmium (Cd)	7440-43-9	<0.05	Extracted: 0.1 ppm	Extracted: 0.05 ppm
		<3.5	Total: 40 ppm	Total: 3.5 ppm Leather: 2.0 ppm
Cobalt (Co)	7440-48-4	<0.05	Extracted: 1 ppm	Extracted: 0.05 ppm
Copper (Cu)	7440-50-8	0.09	Extracted: 25 ppm	Extracted: 0.05 ppm
Chromium (Cr)	7440-47-3	0.32	Extracted: Textiles: 2 ppm Leather: 60 ppm	Extracted: 0.05 ppm
Lead (Pb)	7439-92-1	<0.05	Extracted: 0.2 ppm	Extracted: 0.05 ppm
		<3.5	Total: 90 ppm	Total: 3.5 ppm Leather: 2.0 ppm
Mercury (Hg)	7439-97-6	<0.005	Extracted: 0.02 ppm	Extracted: 0.005 ppm
		<0.10	Total: 0.5 ppm	Total: 0.10 ppm
Nickel (Ni)	7440-02-0	0.08	Extracted: 1 ppm	Extracted: 0.05 ppm
Selenium (Se)	7782-49-2	<0.05	Extracted: 500 ppm	Extracted: 0.05 ppm

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Chlorinated Benzenes and Toluenes	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
2-Chlorotoluene	95-49-8	<0.20	Total: 1 ppm	0.20 ppm (each)
3-Chlorotoluene	108-41-8	<0.20		
4-Chlorotoluene	106-43-4	<0.20		
2,3-Dichlorotoluene	32768-54-0	<0.20		
2,4-Dichlorotoluene	95-73-8	<0.20		
2,5-Dichlorotoluene	19398-61-9	<0.20		
2,6-Dichlorotoluene	118-69-4	<0.20		
3,4-Dichlorotoluene	95-75-0	<0.20		
2,3,6-Trichlorotoluene	2077-46-5	<0.20		
2,4,5-Trichlorotoluene	6639-30-1	<0.20		
2,3,4,5-Tetrachlorotoluene	76057-12-0	<0.20		
2,3,4,6-Tetrachlorotoluene	875-40-1	<0.20		
2,3,5,6-Tetrachlorotoluene	1006-31-1	<0.20		
Pentachlorotoluene	877-11-2	<0.20		
1,3-Dichlorobenzene	541-73-1	<0.20		
1,4-Dichlorobenzene	106-46-7	<0.20		
1,2,3-Trichlorobenzene	87-61-6	<0.20		
1,2,4-Trichlorobenzene	120-82-1	<0.20		
1,3,5-Trichlorobenzene	108-70-3	<0.20		
1,2,3,4-Tetrachlorobenzene	634-66-2	<0.20		
1,2,3,5-Tetrachlorobenzene	634-90-2	<0.20		
1,2,4,5-Tetrachlorobenzene	95-94-3	<0.20		
Pentachlorobenzene	608-93-5	<0.20		
Hexachlorobenzene	118-74-1	<0.20		
p-Chlorobenzotrichloride	5216-25-1	<0.20		
Benzotrichloride	98-07-7	<0.20		
Benzyl Chloride	100-44-7	<0.20		
1,2-Dichlorobenzene	95-50-1	<0.20	10 ppm	

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Polycyclic Aromatic Hydrocarbons (PAHs)	CAS Number	Results	VEJA Limits (Maximum allowable concentration)		Laboratory Limits (Method quantification limit)
Acenaphtene	83-32-9	<0.20	No individual restriction	Total: 10 ppm	0.20 ppm
Acenaphthylene	208-96-8	<0.20			
Anthracene	120-12-7	<0.20			
Benzo(g,h,i)perylene	191-24-2	<0.20			
Fluorene	86-73-7	<0.20			
Fluoranthene	206-44-0	<0.20			
Indeno(1,2,3-cd) pyrene	193-39-5	<0.20			
Naphthalene	91-20-3	<0.20			
Phenanthrene	85-01-8	<0.20			
Pyrene	129-00-0	<0.20			
Benzo(a)anthracene	56-55-3	<0.20	0.5 ppm (each)		
Benzo(a)pyrene	50-32-8	<0.20			
Benzo(b)fluoranthene	205-99-2	<0.20			
Benzo[e]pyrene	192-97-2	<0.20			
Benzo[j]fluoranthene	205-82-3	<0.20			
Benzo(k)fluoranthene	207-08-9	<0.20			
Chrysene	218-01-9	<0.20			
Dibenzo(a,h)anthracene	53-70-3	<0.20			

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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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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

Organotin Compounds	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Dibutyltin (DBT)	Several	<0.10	1 ppm (each)	0.10 ppm
Dioctyltin (DOT)	Several	<0.10		
Monobutyltin (MBT)	Several	<0.10		
Tricyclohexyltin (TCyHT)	Several	<0.10		
Trimethyltin (TMT)	Several	<0.10		
Trioctyltin (TOT)	Several	<0.10		
Tripropyltin (TPT)	Several	<0.10		
Triphenyltin (TPhT)	Several	<0.10	0.5 ppm	0.10 ppm
Tributyltin (TBT)	Several	<0.10	0.1 ppm	

EXAMINATION PERFORMED: 05/17/2022 to 06/03/2022.

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, June 06th, 2022

DEBORA MARIA
BERNARDES:5678
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DEBORA MARIA
BERNARDES:56781415034
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Laboratory Technical Manager
CRQ 05402469

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Technical Analyst
CRQ 05202050

Revision 02
BRC

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Test Report

No. BR2202166 Rev. 0

Date: Barueri, 03 Jun 2022

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SERVICO NACIONAL DE APRENDIZAGEM INDUSTRIAL SENAI
RUA GREGORIO DE MATTOS
111
ESTANCIA VELHA, RS 93600010
BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: PELEGO SINTETICO PET
RECICLADO FORNECEDOR: PETTENATTI

SGS Order No. : 40026490

Total of Sample : 01 SAMPLE

Project : VEJA

Sampling Date : 05/17/2022

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

Proposal Number : PR22-334897 REV01

Sample Receiving Date : 20 May 2022

Test Performing Period : 23 May 2022 - 01 Jun 2022

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

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Sample Photo :



SGS authenticate the photo on original report only

Signed for and on behalf of
SGS do Brasil Ltda.

Alessandra Shimizu
Laboratory Manager CRQ 04245592

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Test Results :

Test Part Description :

Item No.	SGS Sample ID	Description
1	BR2202166.001	PELEGO SINTETICO PET RECICLADO FORNECEDOR: PETTENATTI

Disperse Dyes

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

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
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
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

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Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
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

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.

Summary of Test Result:

Test Parameter	Test Method	Evaluation
Disperse Dyes	With reference to DIN 54231:2005, analysis was performed by HPLC-DAD-MSD.	PASS

*** End of Report ***

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