



Test Report

No. BR2204892 Rev. 0

Date: Barueri, 24 Nov 2022

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ESENCIAL INDUSTRIA E COMERCIO LTDA
AVENIDA ESTRUTURAL B
S/N
LOTES 01,02,03,04 E 05 QUADRA 13
NOSSA SENHORA DO SOCORRO, SE 49160000
BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: **Manta Agulhada Costurada**

SGS Order No. : 400000000283
Total of Sample : 1 SAMPLE
Lot Number : 51230
Test Product : B - Synthetic Fibers
Test Packaging : Yes - B - Sample contains PVC or recycled material with paints or varnishes
Mix : No

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

Proposal Number : C&P PR22-296984 REV00
Sample Receiving Date : 11 Nov 2022
Test Performing Period : 17 Nov 2022 - 23 Nov 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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Test Results :

Test Part Description :

Item No.	SGS Sample ID	Description
1	BR2204892.001	Manta Agulhada Costurada

Nonylphenol (NP) and Octylphenol (OP)

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

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
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. 100.00	10.00	mg/kg	ND

Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)

Test Method : Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-MS.

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
Nonylphenol ethoxylates (NPEO)	9016-45-9	-	20.00	mg/kg	ND
Octylphenol ethoxylates (OPEO)	9002-93-1	-	20.00	mg/kg	ND
Sum of NPEO and OPEO		Max. 100.00	-	mg/kg	ND

AZO Dyes

Test Method : With reference to EN ISO 14362-1:2017 & EN ISO 14362-3: 2017, analysis was performed with GC-MS/LC-DAD.

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
4-Aminobiphenyl	92-67-1	Max. 20.0	5.0	mg/kg	ND
Benzidine	92-87-5	Max. 20.0	5.0	mg/kg	ND
4-chloro-o-toluidine	95-69-2	Max. 20.0	5.0	mg/kg	ND
2-naphthylamine	91-59-8	Max. 20.0	5.0	mg/kg	ND
o-aminoazotoluene	97-56-3	Max. 20.0	5.0	mg/kg	ND
2-amino-4-nitrotoluene	99-55-8	Max. 20.0	5.0	mg/kg	ND
4-chloroaniline	106-47-8	Max. 20.0	5.0	mg/kg	ND
2,4-diamino-anisole	615-05-4	Max. 20.0	5.0	mg/kg	ND
4,4'-diaminodiphenylmethane	101-77-9	Max. 20.0	5.0	mg/kg	ND
3,3'-dichlorobenzidine	91-94-1	Max. 20.0	5.0	mg/kg	ND
3,3'-dimethoxybenzidine	119-90-4	Max. 20.0	5.0	mg/kg	ND
3,3'-dimethylbenzidine	119-93-7	Max. 20.0	5.0	mg/kg	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	Max. 20.0	5.0	mg/kg	ND

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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
p-cresidine	120-71-8	Max. 20.0	5.0	mg/kg	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	Max. 20.0	5.0	mg/kg	ND
4,4'-oxydianiline	101-80-4	Max. 20.0	5.0	mg/kg	ND
4,4'-thiodianiline	139-65-1	Max. 20.0	5.0	mg/kg	ND
o-toluidine	95-53-4	Max. 20.0	5.0	mg/kg	ND
2,4-Toluyldiamine	95-80-7	Max. 20.0	5.0	mg/kg	ND
2,4,5-trimethylaniline	137-17-7	Max. 20.0	5.0	mg/kg	ND
4-aminoazobenzene	60-09-3	Max. 20.0	5.0	mg/kg	ND
O-Anisidine	90-04-0	Max. 20.0	5.0	mg/kg	ND
2,4-Xylidine	95-68-1	Max. 20.0	5.0	mg/kg	ND
2,6-Xylidine	87-62-7	Max. 20.0	5.0	mg/kg	ND
4-Chloro-o-toluidinium chloride	3165-93-3	Max. 20.0	5.0	mg/kg	ND
2-Naphthylammoniumacetate	553-00-4	Max. 20.0	5.0	mg/kg	ND
4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	Max. 20.0	5.0	mg/kg	ND
2,4,5-Trimethylamine hydrochloride	21436-97-5	Max. 20.0	5.0	mg/kg	ND

Notes: Results over 1/2 or 1/3 of test requirement indicate a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.
4-Aminodiphenyl CAS 92-67-1, 2-Naphthylamine CAS 91-59-8 and 4-Methoxy-m-phenylene-diamine CAS 615-05-4 can be indirectly generated from some colorants which do not contain these amines azo bound. 4,4'-methylene-dianiline CAS 101-77-9 and 2,4-toluylen-diamine CAS 95-80-7 may be released from polyurethane or chemical fixing agent. The use of banned azo colorants cannot be reliably ascertained without additional information.
The ISO 14362-1:2017 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not detected by mentioned test method, test result for 4-aminoazobenzene CAS 60-09-3 is considered as 'not detected'. Otherwise, the test method of ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

Determination of Bisphenol

Test Method : Extraction: 1 g sample / 20 ml
THF, sonication for 60 minutes at 60°C, analysis with LC/MS

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
Bisphenol A (BPA)	80-05-7	Max. 1.00	1.00	mg/kg	ND
Bisphenol-AF (BPAF)	1478-61-1	-	1.00	mg/kg	ND
Bisphenol-F (BPF)	620-92-8	Max. 1.00	1.00	mg/kg	ND
Bisphenol-S (BPS)	80-09-1	Max. 1.00	1.00	mg/kg	ND

Notes :

Bisphenol-AF (BPAF) without restriction

Formaldehyde

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

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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	Result <u>001</u>
Formaldehyde	50-00-0	-	16.00	mg/kg	ND

Notes :

Limit: all except packaging:16 ppm Packaging:150 ppm

Disperse Dyes

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

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

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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
Basic Green 4	2437-29-8	Max. 50.0	15.0	mg/kg	ND
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

pH Value

Test Method : With reference to BS ISO 3071:2020.

<u>Test Item(s)</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
pH Value of Aqueous Extract	4.00 - 7.50	-	-	6.20

Chlorinated Benzenes and Toluenes

Test Method : With reference to EN17137:2018; analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
2-Chlorotoluene	95-49-8	-	0.2	mg/kg	ND
3-Chlorotoluene	108-41-8	-	0.2	mg/kg	ND
4-Chlorotoluene	106-43-4	-	0.2	mg/kg	ND
2,3-Dichlorotoluene	32768-54-0	-	0.2	mg/kg	ND
2,4-Dichlorotoluene	95-73-8	-	0.2	mg/kg	ND
2,5-Dichlorotoluene	19398-61-9	-	0.2	mg/kg	ND
2,6-Dichlorotoluene	118-69-4	-	0.2	mg/kg	ND
3,4-Dichlorotoluene	95-75-0	-	0.2	mg/kg	ND
2,3,6-Trichlorotoluene	2077-46-5	-	0.2	mg/kg	ND
2,4,5-Trichlorotoluene	6639-30-1	-	0.2	mg/kg	ND
2,3,4,5-Tetrachlorotoluene	76057-12-0	-	0.2	mg/kg	ND
2,3,4,6-Tetrachlorotoluene	875-40-1	-	0.2	mg/kg	ND
2,3,5,6-Tetrachlorotoluene	1006-31-1	-	0.2	mg/kg	ND

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Pentachlorotoluene	877-11-2	-	0.2	mg/kg	ND
1,3-Dichlorobenzene	541-73-1	-	0.2	mg/kg	ND
1,4-Dichlorobenzene	106-46-7	-	0.2	mg/kg	ND
1,2,3-Trichlorobenzene	87-61-6	-	0.2	mg/kg	ND
1,2,4-Trichlorobenzene	120-82-1	-	0.2	mg/kg	ND
1,3,5-Trichlorobenzene	108-70-3	-	0.2	mg/kg	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	-	0.2	mg/kg	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	-	0.2	mg/kg	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	-	0.2	mg/kg	ND
Pentachlorobenzene	608-93-5	-	0.2	mg/kg	ND
Hexachlorobenzene	118-74-1	-	0.2	mg/kg	ND
p-Chlorobenzotrichloride	5216-25-1	-	0.2	mg/kg	ND
Benzotrichloride	98-07-7	-	0.2	mg/kg	ND
Benzyl Chloride	100-44-7	-	0.2	mg/kg	ND
1,2-Dichlorobenzene	95-50-1	Max. 10.0	1.0	mg/kg	ND
Sum		Max. 1.0	-	mg/kg	ND

Extractable Heavy Metal

Test Method : DIN EN 16711-2:2016, Analysis was conducted by ICP-MS

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
Antimony (Sb)	7440-36-0	Max. 30.000	3.000	mg/kg	14.786
Arsenic (As)	7440-38-2	Max. 0.200	0.100	mg/kg	ND
Barium (Ba)	7440-39-3	Max. 1000.000	100.000	mg/kg	ND
Cadmium (Cd)	7440-43-9	Max. 0.100	0.050	mg/kg	ND
Chromium (Cr)	7440-47-3	Max. 2.000	0.500	mg/kg	ND
Cobalt (Co)	7440-48-4	Max. 1.000	0.500	mg/kg	ND
Copper (Cu)	7440-50-8	Max. 25.000	5.000	mg/kg	ND
Lead (Pb)	7439-92-1	Max. 0.200	0.100	mg/kg	ND
Mercury (Hg)	7439-97-6	Max. 0.020	0.020	mg/kg	ND
Nickel (Ni)	7440-02-0	Max. 1.000	0.100	mg/kg	ND
Selenium (Se)	7782-49-2	Max. 500.000	50.000	mg/kg	ND

Organotin Compounds

Test Method : With reference to ISO 16179:2012, analysis was performed by GC-MS

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
Dibutyl tin (DBT)	1002-53-5	Max. 1.00	0.10	mg/kg	ND
Diocetyl tin (DOT)	15231-44-4	Max. 1.00	0.10	mg/kg	ND
Monobutyl tin (MBT)	78763-54-9	Max. 1.00	0.10	mg/kg	ND
Tricyclohexyl tin (TCyHT)	892-20-6	Max. 1.00	0.10	mg/kg	ND
Trimethyltin (TMT)		Max. 1.00	0.10	mg/kg	ND
Trioctyltin (TOT)	869-59-0	Max. 1.00	0.10	mg/kg	ND
Tripropyltin(TPT)		Max. 1.00	0.10	mg/kg	ND
Tributyl tin (TBT)	688-73-3	Max. 0.10	0.10	mg/kg	ND
Triphenyl tin (TPhT)	892-20-6	Max. 0.50	0.10	mg/kg	ND

Polycyclic aromatic hydrocarbons (PAH)

Test Method : With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
Acenaphthene (ANA)	83-32-9	-	0.20	mg/kg	ND
Acenaphthylene (ANY)	208-96-8	-	0.20	mg/kg	ND
Anthracene (ANT)	120-12-7	-	0.20	mg/kg	ND
Benzo(g,h,i)perylene (BPE)	191-24-2	-	0.20	mg/kg	ND
Fluorene (FLU)	86-73-7	-	0.20	mg/kg	ND
Fluoranthene (FLT)	206-44-0	-	0.20	mg/kg	ND
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	-	0.20	mg/kg	ND
Sum of 17 PAH		-	-	mg/kg	ND
Sum of 18 PAH		-	-	mg/kg	ND
Naphthalene (NAP)	91-20-3	-	0.20	mg/kg	ND
Phenanthrene(PHE)	85-01-8	-	0.20	mg/kg	ND
Pyrene (PYR)	129-00-0	-	0.20	mg/kg	ND
Benzo(a)anthracene (BaA)	56-55-3	Max. 0.50	0.20	mg/kg	ND
Benzo(a)pyrene (BaP)	50-32-8	Max. 0.50	0.20	mg/kg	ND
Benzo(e)pyrene (BeP)	192-97-2	Max. 0.50	0.20	mg/kg	ND
Benzo(k)fluoranthene (BkF)	207-08-9	Max. 0.50	0.20	mg/kg	ND
Chrysene (CHR)	218-01-9	Max. 0.50	0.20	mg/kg	ND
Dibenzo(a,h)anthracene (DBA)	53-70-3	Max. 0.50	0.20	mg/kg	ND
Benzo(b)fluoranthene (BbF) and Benzo(j)fluoranthene (BjF)	205-99-2 / 205-82-3	-	0.10	mg/kg	ND
Sum PAH Hight Concern		-	-	mg/kg	ND
Benzo(b)fluoranthene (BbF)	205-99-2	Max. 0.50	0.20	mg/kg	ND
Benzo(j)fluoranthene (BjF)	205-82-3	Max. 0.50	0.20	mg/kg	ND
Sum of 18 PAHs		Max. 10.00	-	mg/kg	ND

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Quinoline

Test Method : DIN 54231:2005, Analysis was conducted by LCMS/DAD

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
Quinoline	91-22-6	Max. 50	10	mg/kg	ND

Phthalates

Test Method : With reference to ISO 14389:2014; Analysis was performed by GC-MS/CPSC Method CPSC-CH-C1001.09.4:2018

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> 001
Diisononyl Phthalate (DINP)	28553-12-0	Max. 500.00	50.00	mg/kg	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	Max. 500.00	50.00	mg/kg	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	Max. 500.00	50.00	mg/kg	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	Max. 500.00	50.00	mg/kg	ND
Benzylbutyl Phthalate (BBP)	85-68-7	Max. 500.00	50.00	mg/kg	ND
Dibutyl Phthalate (DBP)	84-74-2	Max. 500.00	50.00	mg/kg	ND
Diisobutyl Phthalate (DIBP)	84-69-5	Max. 500.00	30.00	mg/kg	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	Max. 500.00	50.00	mg/kg	ND
Diethyl Phthalate (DEP)	84-66-2	Max. 500.00	50.00	mg/kg	ND
Dimethyl Phthalate (DMP)	131-11-3	Max. 500.00	50.00	mg/kg	ND
Di-n-pentyl Phthalate (DPENP)	131-18-0	Max. 500.00	50.00	mg/kg	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	Max. 500.00	50.00	mg/kg	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	Max. 500.00	50.00	mg/kg	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	Max. 500.00	50.00	mg/kg	ND
Diisopentyl Phthalate (DIPP)	605-50-5	Max. 500.00	50.00	mg/kg	ND
Dipropyl phthalate (DPRP)	131-16-8	Max. 500.00	50.00	mg/kg	ND
Diisooctyl phthalate (DIOP)	27554-26-3	Max. 500.00	50.00	mg/kg	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Max. 500.00	50.00	mg/kg	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	Max. 500.000	50.000	mg/kg	ND
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	Max. 500.000	30.000	mg/kg	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5	Max. 500.000	30.000	mg/kg	ND
N-pentyl-isopentyl Phthalate (NPIPP)	776297-69-9	Max. 500.00	30.00	mg/kg	ND
Di-hexylphthalate, branched and linear (DHxP)	68515-50-4	Max. 500.000	30.000	mg/kg	ND
Di-iso-hexylphthalate (DIHxP)	71850-09-4	Max. 500.00	30.00	mg/kg	ND
Sum		Max. 1000.00	-	mg/kg	ND

Monomer - Vinyl Chloride

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Test Method : With reference to EN ISO 6401:2008. Analysis was conducted by headspace GC-MS.

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
Vinyl Chloride	75-01-4	Max. 1	1	mg/kg	ND

Total Heavy Metals

Test Method : DIN EN 16711-1:2016, Analysis was conducted by ICP-MS

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
Arsenic (As)	7440-38-2	Max. 100.00	10.00	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

Non-Metal Products

Test Method : With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.

Test Item(s)	Limit	RL	Unit	Result
Lead (Pb)	Max. 90.00	10.00	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
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pH Value	With reference to BS ISO 3071:2020.	PASS
Extractable Heavy Metal	DIN EN 16711-2:2016, Analysis was conducted by ICP-MS	PASS
Monomer - Vinyl Chloride	With reference to EN ISO 6401:2008. Analysis was conducted by headspace GC-MS.	PASS
Total Heavy Metals	DIN EN 16711-1:2016, Analysis was conducted by ICP-MS	PASS
Non-Metal Products	With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.	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
AZO Dyes	With reference to EN ISO 14362-1:2017 & EN ISO 14362-3: 2017, analysis was performed with GC-MS/LC-DAD.	PASS
Determination of Bisphenol	Extraction: 1 g sample / 20 ml THF, sonication for 60 minutes at 60°C, analysis with LC/MS	PASS
Formaldehyde	With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis.	PASS
Disperse Dyes	With reference to DIN 54231:2005, analysis was performed by HPLC-DAD-MSD.	PASS
Chlorinated Benzenes and Toluenes	With reference to EN17137:2018; analysis was performed by GC-MS.	PASS
Organotin Compounds	With reference to ISO 16179:2012, analysis was performed by GC-MS	PASS
Polycyclic aromatic hydrocarbons (PAH)	With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.	PASS
Quinoline	DIN 54231:2005, Analysis was conducted by LCMS/DAD	PASS
Phthalates	With reference to ISO 14389:2014; Analysis was performed by GC-MS/CPSC Method CPSC-CH-C1001.09.4:2018	PASS

*** End of Report ***

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