

Requirer: FCC INDÚSTRIA E COMÉRCIO LTDA

Address: Av Paineira, 20 – Campo Bom - RS

Date of receipt of sample: 02/23/2022.

Sample characterization: 01 sample of material, identified by the customer as: "ADESIVO FORTIK 360 ESP LOTE: 26039/COR BRANCA + ADESIVO FORTIK 368 ST LOTE: 1755/COR BRANCA".

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	CPSC-CH-E1002-08.3 (2012)	Pass
4 – Total Arsenic	<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 Cadmium	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
7 – Formaldehyde	<0.50	0.50	mg/kg	ISO 14184-1:2011	Pass
8 – Polyaromatic Hydrocarbons – PAHs	<0.20	0.20	mg/kg	AFPS-GS-2019-01-PAK	Pass
9 – Organotin Compounds	<0.10	0.10	mg/kg	ABNT ISO/TS 16179:2017	Pass
10 – Phtalates	<50.0	50.0	mg/kg	CPSC-CHC1001-09.4 (2018)	Pass
11– Volatile Organic Compounds (VOCs)	33.0	0.05	mg/kg	Método AFIRM - VOCs	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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Chemical

Technical Report

Service Order

Page

Analysis

Laboratory

Nº 1082/22

Nº 0451/22

2/6



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 $\geq 0.3\%$ 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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Chemical
Analysis
Laboratory

Technical Report
Nº 1082/22

Service Order
Nº 0451/22

Page
3/6



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		

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	
Tributyltin (TBT)	Several	<0.10	0.1 ppm	

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Polycyclic Aromatic Hydrocarbons (PAHs)	CAS Number	Results	VEJA Limits (Maximum allowable concentration)		Laboratory Limits (Method quantification limit)
Acenaphthene	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			

Heavy Metals	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Arsênio	7740-38-2	<3.5	Total: 10 ppm	Total: 3.5 ppm Leather: 2.0 ppm
Cádmio	7440-43-9	<3.5	Total: 40 ppm	Total: 3.5 ppm Leather: 2.0 ppm
Chumbo	7439-92-1	<3.5	Total: 90 ppm	Total: 3.5 ppm Leather: 2.0 ppm
Mercurio	7439-97-6	<0.10	Total: 0.5 ppm	Total: 0.10 ppm

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Chemical
Analysis
Laboratory

Technical Report
Nº 1082/22

Service Order
Nº 0451/22

Page
5/6



Volatile Organic Compounds (VOCs)	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Carbon Disulfide	75-15-0	<0.05	Total: 1000 ppm	0.05 ppm (each)
Carbon tetrachloride	56-23-5	<0.05		
Chloroform	67-66-3	<0.05		
Cyclohexanone	108-94-1	<0.05		
1,2-Dichloroethane	107-06-2	<0.05		
1,1-Dichloroethylene	75-35-4	<0.05		
Pentachloroethane	76-01-7	<0.05		
Ethylbenzene	100-41-4	11.3		
1,1,1,2- Tetrachloroethane	630-20-6	<0.05		
1,1,2,2- Tetrachloroethane	79-34-5	<0.05		
Tetrachloroethylene (PERC)	127-18-4	<0.05		
Toluene	108-88-3	<0.05		
1,1,1- Trichloroethane	71-55-6	<0.05		
1,1,2- Trichloroethane	79-00-5	<0.05		
Trichloroethylene	79-01-6	<0.05		
Xylenes (meta-, ortho-, para-)	1330-20-7	21.7		
4,4'-Thiodianiline	108-38-3	<0.05		
o-Toluidine	95-47-6	<0.05		
2,4-Toluylenediamine	106-42-3	<0.05		
Benzene	71-43-2	<0.05	5.0 ppm	0.05 ppm (each)
Hexachlorobutadiene	87-68-3	<0.05	100 ppm	

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Chemical
Analysis
Laboratory

Technical Report

Service Order

Page

Nº 1082/22

Nº 0451/22

6/6



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

EXAMINATION PERFORMED: 02/23/2022 to 03/09/2022.

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, March 10th, 2022

Laboratory Technical Manager
Débora Maria Bernardes
CRQ 05402469

Revision 00
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