TEST REPORT SR 0573/22

Client: Gi Matrizes Ltda.
Address: 5075, RS 239, Parobé – RS – Brazil.

1 - Sample description: One (01) sample of beige coloured polymeric sole.
Client identification: “Sola EVA Ref. Canary Cor: Pierre”.

Application: 60566
Date of entry: 02/01/2022
Date of the test: 02/03 until 02/17/2022 and 02/24/2022 and 02/28/2022.

TESTS AND RESULTS

Determination of Bisphenols (BPA, BPS, BPF, BPAF) (US EPA 3550C: 2007 & US EPA 8321B: 2007)[1]

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1	**< LQM**	Maximum: 1 ppm	PASS

Determination of phthalate content (CPSC-CH-C 1001-09.3/2018)*

Sample	Results (%)	Orientation (Manual Veja 2021)	Evaluation
1	**< LQM**	Maximum: 500 ppm each Total: 1000 ppm	PASS

Determination of polycyclic aromatic hydrocarbons (PAHs) (ISO 16190/13)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1	**< LQM**	Total: 10 ppm	PASS

Determination of metal content
Part 1: Determination of metals using microwave digestion (BS EN 16711-1:2015)
Analysis performed by ICP-OES

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1	**Cd = < LQM**	Maximum: 40 ppm	PASS
	Pb = < LQM	Maximum: 90 ppm	PASS
	As = <LQM	Maximum: 10 ppm	PASS
	Hg = <LQM	Maximum: 0.5 ppm	PASS

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Nonylphenol (NP), Octylphenol (OP), NonylphenolEthoxylates (NPEO/OPEO) (ISO 18254-1/16)[1]

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1	**< LQM**	Sum of NP and OP: Maximum: 100 ppm Sum of NPEO and OPEO: Maximum: 100 ppm	PASS

Determination of DMFa, DMAC, NMP e Formamide (ISO 16189/13)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1	**< LQM**	DMFa: maximum 500 ppm Formamide, DMAC, NMP: Maximum 1000 ppm each	PASS

Method Quantification Limit – LQM		
- Phthalates: 0.015 %		
Dimethyl phthalate (DMP)	Di-n-hexyl phthalate (DNHP)	Methyl butyl phthalate (MBP)
Di-(2-ethyl-hexyl) phthalate (DEHP)	Butyl benzyl phthalate (BBP)	Di-n-pentyl phthalate (DPP)
Diisobutyl phthalate (DIBP)	Diisodecyl phthalate (DIDP)	Diisooctyl phthalate (DIOP)
Dibutyl phthalate (DBP)	Diethyl phthalate (DEP)	Bis(2-methoxyethyl) phthalate (BMEP)
Diisoheptyl phthalate (DIHP)	Diisononyl phthalate (DINP)	Dipropyl phthalate (DPrP)
Dicyclohexyl phthalate (DCHP)	Di-n-octyl phthalate (DNOP)	Diisopentyl phthalate (DIPP)
N-pentyl-isopentyl phthalate (PiPP)		
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		
1,2-benzenedicarboxylic acid, dipentylester, branched and linear		
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)		
1,2-benzenecarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)		
- PAHs (ppm): 0.5 ppm		
Naphthalene	Benzo[e]pyrene	
Acenaphthylene	Benzo[j]fluoranthene	
Acenaphthene	Chrysene	
Fluorene	Benzo[b]fluoranthene	
Phenanthrene	Benzo[k]fluoranthene	
Anthracene	Benzo[a]pyrene	
Fluoranthene	Indeno[1,2,3-cd]pyrene	
Pyrene	Dibenzo[a,h]anthracene	
Benzo[a]anthracene	Benzo[g,h,i]perylene	
- Alkyl Phenol (ppm):		
NP/ OP: 10 ppm	OPEO/ NPEO: 50 ppm	
- Bisphenols: 1 ppm		
Bisphenol A (BPA)	Bisphenol-S (BPS)	
Bisphenol-F (BPF)	Bisphenol-AF (BPAF)	
- BS EN 16711-1 (Total):		
Lead (Pb): 10.0 ppm	Cadmium (Cd): 10.0 ppm	
Arsenic (As): 10.0 ppm	Mercury (Hg): 0.5 ppm	
Solvents and Residuals (ppm):		
Dimethylformamide (DMFa): 10	N – methyl – 2 – pyrrolidone (NMP): 10	
Dimethylacetamide (DMAC): 10	Formamide: 10	

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[1]This test has been outsourced:

Enterprise: Centre Testing International Group Co., Ltd.
Address: Liuxian 3rd Road, Xin'an Street, Bao'an District, Shenzhen, P.R. China.
Document: A2210538200154
Date: 02/24 a 02/28/2022.

Considerations:
ppm (parts per million) = mg/kg
Sampling was carried by client.
With the exception of the outsourced tests, the remaining tests were performed in the laboratory permanent facilities.
At the customer's request, the samples were grouped. In case of a positive result, IBTeC recommends testing each separate sample.

With no further information for the time being, we now issue the present report.

This report integrates the sheet of signatures attached.

Novo Hamburgo, February 28th, 2022.

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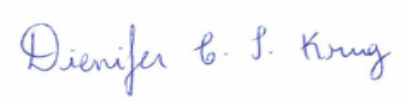

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