

## TEST REPORT SR 0640/22

**Client:** Elastomer Indústria de Artefatos de Borracha Ltda.

**Address:** 6775, Carlos Strassburger Filho Street, Campo Bom - RS - Brazil.

**1 - Sample description:** One (01) sample of black coloured polymeric material.  
**Client identification:** "Placa 01 (Azul 8641; Azul 8642; Violeta 8694; Preto 9020; Dióxido de Titânio); Lote dos Pigmentos: 65747, 67239, 67238, 66854, 67241, 20110214".

**2 - Sample description:** One (01) sample of red coloured polymeric material.

**Client identification:** "Placa 02 (Roxo 9256; Roxo 8696; Amarelo 9036; Vermelho 8697; Laranja 9263); Lote dos Pigmentos: 66292, 67242, 67237; 67243, 60926".



**Application:** 60395

**Date of entry:** 01/24/2022

**Date of the test:** 01/26 until 02/15/2022 and 03/03 until 03/07/2022.

### TESTS AND RESULTS

#### Determination of Bisphenols (BPA, BPS, BPF, BPAF) (US EPA 3550C: 2007 & US EPA 8321B: 2007)<sup>1</sup>

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

#### Determination of organotin compounds (ISO/TS 16179:2012)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1	< LQM	DBT, DOT, MBT, TCyHT, TMT: 1 ppm each	PASS
2	< LQM	TPhT: 0.5 ppm TBT: 0.1 ppm	PASS

#### Nonylphenol (NP), Octylphenol (OP), Nonylphenol Ethoxylates (NPEO/OPEO) (EN ISO 18254-1:2016)<sup>1</sup>

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

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### 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
2	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

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

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

### Short-chain and Medium-chain chlorinated paraffins (SCCPs and MCCPs) (ISO 18219/2015)<sup>1</sup>

Sample	Results (ppm)	Orientation (Tapestry 2021)	Evaluation
1	< LQM	Maximum 1500 ppm	PASS

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Method Quantification Limit – LQM		
<b>- Organotin: 0.2 ppm</b>		
n-butyltin (MBT)	Monoctyltin (MOT)	Trimethyltin (TMT)
tributyltin (TBT)	Di-n-octyltin (DOT)	Tricyclohexyltin (TCyHT)
Dibutyltin (DBT)	Triphenyltin (TPHT)	Trioctyltin (TOT)
Tetrabutyltin (TeBT)	Tripropyltin (TPT)	
<b>- Alkyl Phenol (ppm):</b>		
	NP/ OP: 10 ppm	OPEO/ NPEO: 50 ppm
<b>- Bisphenols: 1 ppm</b>		
Bisphenol A (BPA)	Bisphenol-S (BPS)	
Bisphenol-F (BPF)	Bisphenol-AF (BPAF)	
<b>- BS EN 16711-1 (Total):</b>		
Lead (Pb): 10.0 ppm	Cadmium (Cd): 10.0 ppm	
Arsenic (As): 10.0 ppm	Mercury (Hg): 0.5 ppm	
<b>- SCCP / MCCP: 100 ppm</b>		
<b>- Phthalates: 0.015 %</b>		
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)
Diisooheptyl 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-benzenedicarboxylic 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)		
<b>- PAHs (ppm): 0.5 ppm</b>		
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	

**<sup>1</sup>This test has been outsourced:**

**Enterprise:** Centre Testing International Group Co., Ltd.

**Address:** Liuxian 3<sup>rd</sup> Road, Xin'an Street, Bao'an District, Shenzhen, P.R. China.

**Document:** A220074830117; A220074830118

**Date:** 03/03 a 03/07/2022.

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**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.

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

This report integrates the sheet of signatures attached.

Novo Hamburgo, March 07<sup>th</sup>, 2022.

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## TEST REPORT SR 0640/22

*Aline Luana Ghiggi*

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Technical Analyst  
Aline Luana Ghiggi - Chemical technician  
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