



## Test Report

No. BR2205328 Rev. 0

Date: Barueri, 06 Jan 2023

Page 1 of 7

CALCADOS RAMARIM LTDA  
RUA ANGRA DOS REIS  
171  
NOVA HARTZ, RS 93890000  
BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: Grupo de Pigmentos 5

SGS Order No. : 400000001012  
Total of Sample : 3 SAMPLES  
Lot Number : R1122/5  
Test Product : H.4. Rubber Materials  
Mix : YES  
Colors : 1.Neotech Vermelho 12109 / 2.Neotech Vermelho 12189 / 3.Neotech Rosa 12110  
Sample composed of fibers of plant origin : NO  
Sample contains PVC or recycled material in the composition : NO  
water repellent material : NO  
Sample covered with paints or varnishes : NO  
Sample based on PU : NO

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

Proposal Number : C&P PR22-298513 REV00  
Sample Receiving Date : 13 Dec 2022  
Test Performing Period : 15 Dec 2022 - 06 Jan 2023  
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 Report

No. BR2205328 Rev. 0

Date: Barueri, 06 Jan 2023

Page 3 of 7

Test Results :

Test Part Description :

| Item No. | SGS Sample ID | Description          |
|----------|---------------|----------------------|
| 1        | BR2205328.001 | Grupo de Pigmentos 5 |

### 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<br><b>001</b> |
|-----------------------|------------|-------------|-------|-------|----------------------|
| 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<br><b>001</b> |
|--------------------------------|-----------|-------------|-------|-------|----------------------|
| 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                   |

### 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<br><b>001</b> |
|--------------|-----------|-------------|-------|-------|----------------------|
| 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<br><b>001</b> |
|--------------|------------|-------|-------|----------------------|
| Lead (Pb)    | Max. 90.00 | 10.00 | mg/kg | ND                   |

### Organotin Compounds

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## Test Report

No. BR2205328 Rev. 0

Date: Barueri, 06 Jan 2023

Page 4 of 7

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

| Test Item(s)              | CAS-NO.    | Limit     | RL   | Unit  | Result<br><b>001</b> |
|---------------------------|------------|-----------|------|-------|----------------------|
| 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                   |
| Tripopyltin(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.

| Test Item(s)                  | CAS-NO.  | Limit      | RL   | Unit  | Result<br><b>001</b> |
|-------------------------------|----------|------------|------|-------|----------------------|
| 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                   |
| 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(b)fluoranthene (BbF)    | 205-99-2 | Max. 0.50  | 0.20 | mg/kg | ND                   |
| Benzo(e)pyrene (BeP)          | 192-97-2 | Max. 0.50  | 0.20 | mg/kg | ND                   |
| Benzo(j)fluoranthene (BjF)    | 205-82-3 | 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                   |
| Sum of 18 PAHs                |          | Max. 10.00 | -    | mg/kg | ND                   |

### Determination of Bisphenol

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## Test Report

No. BR2205328 Rev. 0

Date: Barueri, 06 Jan 2023

Page 5 of 7

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

| Test Item(s)        | CAS-NO.   | Limit     | RL   | Unit  | Result<br>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

### Phthalates

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

| Test Item(s)  | CAS-NO.     | Limit        | RL     | Unit  | Result<br>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 | 51.90         |
| 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            |

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## Test Report

No. BR2205328 Rev. 0

Date: Barueri, 06 Jan 2023

Page 6 of 7

| Test Item(s)                                  | CAS-NO.    | Limit        | RL     | Unit  | Result<br><b>001</b> |
|---|------------|--------------|--------|-------|----------------------|
| 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 | 51.90                |

### Chlorinated Paraffins

Test Method : With reference to ISO 22818:2021. Analysis was conducted by GC-NCI-MS.

| Test Item(s)                               | CAS-NO.    | Limit     | RL  | Unit  | Result<br><b>001</b> |
|--|------------|-----------|-----|-------|----------------------|
| Short Chained Chlorinated Paraffin (SCCP)  | 85535-84-8 | Max. 1000 | 100 | mg/kg | ND                   |
| Medium Chained Chlorinated Paraffin (MCCP) | 85535-85-9 | Max. 1000 | 100 | 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.

The test Chlorinated Paraffins is not part of the scope of testing of this laboratory and was produced by a subcontracted laboratory.

The outsourced test was performed by laboratory SGS Hong Kong Limited, report number SL12200349461701TX.

**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 |
|---------------------------------------|---|------------|
| 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       |

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## Test Report

No. BR2205328 Rev. 0

Date: Barueri, 06 Jan 2023

Page 7 of 7

|   |   |      |
|---|---|------|
| Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) | Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-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 |
| Determination of Bisphenol  | Extraction: 1 g sample / 20 ml THF, sonication for 60 minutes at 60°C, analysis with LC/MS            | PASS |
| Phthalates  | With reference to ISO 14389:2014; Analysis was performed by GC-MS/CPSC Method CPSC-CH-C1001.09.4:2018 | PASS |
| Chlorinated Paraffins   | With reference to ISO 22818:2021. Analysis was conducted by GC-NCI-MS.                                | PASS |

\*\*\* End of Report \*\*\*

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