

**TEST REPORT Nº 599/22**

**CUSTOMER:** Aniger – Calçados, Suprimentos e Empreendimentos LTDA.  
Rua Armindo Eltz,51 – Quatro Colônias  
Campo Bom - RS

**SAMPLE DESCRIPTION:**

Sample consisting of red polymeric material, according to Figure 1, identified by the customer as “Pigmento Vermelho 33227 LUV + Pigmento Renol Verde 602141-14 + Pigmento Verde 33289 LUV”. Order Test nº 599/22 of 03.14.2022.



**Figure 1:** Sample sent by the customer.

**SAMPLING:**

The sample was selected by the customer.

**REQUIRED TEST:**

- Short Chain Chlorinated Paraffins - SCCP (C<sub>10</sub>-C<sub>13</sub>)
- Medium Chain Chlorinated Paraffins – MCCP (C<sub>14</sub>-C<sub>17</sub>)

**TEST RESULT:**

Components	Result (mg/kg)	LOQ (mg/kg)
Short Chain Chlorinated Paraffins (C <sub>10</sub> -C <sub>13</sub> )	< LOQ	9.5
Medium Chain Chlorinated Paraffins (C <sub>14</sub> -C <sub>17</sub> )	< LOQ	2.5

1 mg/kg = 0.0001% by weight

< LOQ = Lower than the Limit of Quantification

LOQ = Limit of Quantification

*The result (s) is (are) true exclusively for sample (s) tested (s).*

*The authenticity of this report must be verified by signature certified inserted into the Adobe PDF file.*

*Printed or electronic copies should be compared with the Adobe PDF file that displays a valid digital signature.*

*Not responsible for any copy issued by customers or third parties, whatever their nature (electronic, xerographic, ...).*

*Reproduction of this document may only be made in full, without any changes, and depends on the written approval of the laboratory.*

**Instituto SENAI de Inovação em Engenharia de Polímeros**

Av. Presidente João Goulart, 682, Bairro Morro do Espelho, CEP 93030-090

São Leopoldo - RS | (51) 3904-2700 | [isi.polimeros@senairs.org.br](mailto:isi.polimeros@senairs.org.br)

[www.senairs.org.br/institutos/engenharia-de-polimeros/ensaios](http://www.senairs.org.br/institutos/engenharia-de-polimeros/ensaios)



**TEST REPORT Nº 599/22**

**METHOD/PROCEDURE:**

Short Chain Chlorinated Paraffins (C <sub>10</sub> -C <sub>13</sub> ) and Medium Chain Chlorinated Paraffins (C <sub>14</sub> -C <sub>17</sub> )	According to ISO 18219:2015 (E). The principle of analysis consists of the extraction of paraffins and subsequent analysis by Liquid Chromatography coupled with Electrospray Ionisation-Orbitrap Mass Spectrometry (LC-ESI-HRMS).  Standards: Chloroparaffin C <sub>10</sub> -C <sub>13</sub> 55.5% CI Standard, Chloroparaffin C <sub>10</sub> -C <sub>13</sub> 63% CI Standard (SCCP) and Chloroparaffin C <sub>14</sub> -C <sub>17</sub> 52% CI Standard (MCCP)
--	---

**NOTE:**

Test report issued electronically.

Test period: 03.22.2022 to 03.23.2022

Issue date: 03.28.2022

**Lucas Heinemann**  
Laboratory Coordinator  
CREA RS 145775

  
**Tauane Straatmann Sudbrack**  
Technical and Technological Services Analyst  
CRQ - V 05202336

*The result (s) is (are) true exclusively for sample (s) tested (s).  
The authenticity of this report must be verified by signature certified inserted into the Adobe PDF file.  
Printed or electronic copies should be compared with the Adobe PDF file that displays a valid digital signature.  
Not responsible for any copy issued by customers or third parties, whatever their nature (electronic, xerographic, ...).  
Reproduction of this document may only be made in full, without any changes, and depends on the written approval of the laboratory.*

**Instituto SENAI de Inovação em Engenharia de Polímeros**

Av. Presidente João Goulart, 682, Bairro Morro do Espelho, CEP 93030-090  
São Leopoldo - RS | (51) 3904-2700 | [isi.polimeros@senairs.org.br](mailto:isi.polimeros@senairs.org.br)  
[www.senairs.org.br/institutos/engenharia-de-polimeros/ensaios](http://www.senairs.org.br/institutos/engenharia-de-polimeros/ensaios)

