

**Relatório de Ensaios**

No. BR1904812 Rev. 0

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LIBREPLAST INDUSTRIA E COMERCIO DE PLASTICOS LTDA

ROD SC 108

0

KM 329

ORLEANS, SC 88870000

BRAZIL

SGS Ordem No. : 40008985

**SGS ID Amostra** BR1904812.001**Descrição** Bobina Picotada

Total de Amostras Recebidas : 01 amostra

Condição de recebimento da amostra na Caixa

SGS :

Marca : Libreplast

Data de Fabricação da Amostra : 10/10/2019

Data da Amostragem : 10/10/2019

País de Origem : Brasil

Número do Lote : 10119

Fabricante : Libreplast

Alimento/Bebida em Contato : Frutas, verduras e carnes

**As informações acima foram fornecidas pelo cliente ou em seu nome.**

Número da Proposta : CRS PR1901274 Rev.03

Data de Recebimento da Amostra: 31 Out 2019

Período de análise : 04 Nov 2019 - 05 Dez 2019

Teste Solicitado : Teste(s) selecionado(s) conforme solicitado pelo cliente.

Descrição das Amostras : Consulte a(s) página(s) seguinte(s).

Método de ensaio : Consulte a(s) página(s) seguinte(s).

Resultados dos Ensaios : Consulte a(s) página(s) seguinte(s).

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Assina em nome da  
SGS do Brasil Ltda.



Alessandra Shimizu  
Gerente de Laboratório CRQ 04245592



Graziella Lelis Dias  
Coordenadora de Laboratório CRQ IV 04261374

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Resultados dos Ensaios :

Descrição das Amostras

| Item No. | SGS ID Amostra | Descrição       |
|----------|----------------|-----------------|
| 1        | BR1904812.001  | Bobina Picotada |

Migração Total - Solução Aquosa 95% Etanol (v/v)

Metodologia : CRS 2441/13 rev04; EN 1186:2002

Legislação : Resoluções RDC ANVISA nº 51 de 2010 e RDC ANVISA nº 105, 1999

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u> | <u>Especificação</u> | <u>Unid.</u>       | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-------------------------|----------------------|--------------------|------------|------------------|------------------|
| Migração Total          | Max. 8,000           | mg/dm <sup>2</sup> | 1,000      | ND               | NA               |

Migração Total - Água Deionizada

Metodologia : CRS 2441/13 rev04; EN 1186:2002

Legislação : Resoluções RDC ANVISA nº 51 de 2010 e RDC ANVISA nº 105, 1999

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH&gt;4,5)

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

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Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u> | <u>Especificação</u> | <u>Unid.</u>       | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-------------------------|----------------------|--------------------|------------|------------------|------------------|
| Migração Total          | Max. 8,000           | mg/dm <sup>2</sup> | 1,000      | ND               | NA               |

**Migração Específica de DOW5 - Solução Aquosa 95% Etanol (v/v)**

Metodologia : EN 13130-1:2004

Legislação : Resolução RDC ANVISA nº 56 de 2012

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>     | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-----------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW5 | Max. 3,000           | mg/kg        | 0,300      | ND               | NA               |

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**Migração Específica de DOW 5 - Água Deionizada**

Metodologia : EN 13130-1:2004

Legislação : Resolução RDC ANVISA nº 56 de 2012

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH&gt;4,5)

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>      | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|------------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW 5 | Max. 3,000           | mg/kg        | 0,300      | ND               | NA               |

**Migração Específica de DOW10 - Solução Aquosa 95% Etanol (v/v)**

Metodologia : EN 13130-1:2004

Legislação : Resolução RDC ANVISA nº 326 de 2019

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

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| <u>Item(s) de Teste</u>      | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|------------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW10 | Max. 30,000          | mg/kg        | 0,100      | ND               | NA               |

**Migração Específica de DOW10 - Água Deionizada**

Metodologia : EN 13130-1:2004

Legislação : Resolução RDC ANVISA nº 326 de 2019

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH&gt;4,5)

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>      | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|------------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW10 | Max. 30,000          | mg/kg        | 0,050      | ND               | NA               |

**Migração Específica de DOW1 - Solução Aquosa 95% Etanol (v/v)**

Metodologia : EN 13130:2004

Legislação : Resolução RDC ANVISA nº 56 de 2012

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

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Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>     | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-----------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW1 | Max. 15,000          | mg/kg        | 0,300      | ND               | NA               |

**Migração Específica de DOW1 - Água Deionizada**

Metodologia : EN 13130:2004

Legislação : Resolução RDC ANVISA nº 56 de 2012

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH&gt;4,5)

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>     | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-----------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW1 | Max. 15,000          | mg/kg        | 0,300      | ND               | NA               |

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**Migração Específica de DOW9 - Solução Aquosa 95% Etanol (v/v)**

Metodologia : EN 13130-1:2004

Legislação : Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>     | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-----------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW9 | Max. 25,000          | mg/kg        | 5,000      | ND               | NA               |

**Migração Específica de DOW9 - Água Deionizada**

Metodologia : EN 13130-1:2004

Legislação : Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH&gt;4,5)

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

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| <u>Item(s) de Teste</u>     | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-----------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW9 | Max. 25,000          | mg/kg        | 0,050      | ND               | NA               |

**Migração Específica de Estearato de Zinco - Solução Aquosa 95% Etanol (v/v)**

Metodologia : EN 13130-1:2004

Legislação : Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos;  
Resultado expresso como zinco

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>                   | <u>CAS NO.</u> | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|---|----------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de Estearato de Zinco | 557-05-1       | Max. 25,000          | mg/kg        | 5,000      | ND               | NA               |

**Migração Específica de Estearato de Zinco - Água Deionizada**

Metodologia : EN 13130-1:2004

Legislação : Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH>4,5); Resultado expresso como zinco

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

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Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>                   | <u>CAS NO.</u> | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|---|----------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de Estearato de Zinco | 557-05-1       | Max. 25.000          | mg/kg        | 0,050      | ND               | NA               |

**Migração Específica de DOW6 - Solução Aquosa 95% Etanol (v/v)**

Metodologia : EN 13130:2004

Legislação : Resolução RDC ANVISA nº 326 de 2019

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos.

As incertezas expandidas foram calculadas considerando  $k=2$  e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>     | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-----------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW6 | Max. 6,000           | mg/kg        | 2,000      | ND               | NA               |

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**Migração Específica de DOW6 - Água Deionizada**

Metodologia : EN 13130:2004

Legislação : Resolução RDC ANVISA nº 326 de 2019

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH&gt;4,5)

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>     | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|-----------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW6 | Max. 6,000           | mg/kg        | 2,000      | ND               | NA               |

**Migração Específica de DOW11 - Solução Aquosa 95% Etanol (v/v)**

Metodologia : EN 13130-1:2004

Legislação : Resolução RDC ANVISA nº 326 de 2019

Notas : Solução Aquosa 95% Etanol (v/v) = Simulante D - Simulante de Alimentos Gordurosos

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Solução Aquosa 95% Etanol (v/v)

Condição de Teste : 20 °C 240,00 h

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| <u>Item(s) de Teste</u>      | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|------------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW11 | Max. 25,000          | mg/kg        | 0,005      | ND               | NA               |

**Migração Específica de DOW11 - Água Deionizada**

Metodologia : EN 13130-1:2004

Legislação : Resolução RDC ANVISA nº 326 de 2019

Notas : Água Deionizada = Simulante A - Alimentos Aquosos Não Ácidos (pH>4,5)

As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de aproximadamente 95%.

**ID Amostra :BR1904812.001** Bobina Picotada

Simulante Usado : Água Deionizada

Condição de Teste : 20 °C 240,00 h

| <u>Item(s) de Teste</u>      | <u>Especificação</u> | <u>Unid.</u> | <u>MQL</u> | <u>Resultado</u> | <u>Incerteza</u> |
|------------------------------|----------------------|--------------|------------|------------------|------------------|
| Migração Específica de DOW11 | Max. 25,000          | mg/kg        | 0,005      | ND               | NA               |

**Nota :**

- (1) MQL = Limite de Quantificação do Método
- (2) ND = Não Detectado ( < MQL )
- (3) "-" = Não Analisado / Não Aplicável
- (4) "-." = Análises em Processo
- (5) 1 mg/kg =0,0001%
- (6) mg/kg = ppm

**Observações :**

As análises no material foram realizadas de acordo com as informações fornecidas pelo cliente, sendo assim é de total responsabilidade do cliente a constatação de que a formulação do material atende as Listas Positivas e, quando pertinente, a realização de ensaios complementares, de acordo com a legislação vigente.

Os resultados reportados referem-se somente às amostras submetidas aos ensaios. A SGS não se responsabiliza pelas informações a respeito da composição da amostra e seus dados de fabricação. As mesmas são de responsabilidade exclusiva do cliente e não fazem parte do escopo de serviço da SGS do Brasil LTDA.

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De acordo com a Resolução RDC nº 51 de 26 de novembro de 2010, no caso dos alimentos em que deve-se usar o simulante D ou D', os resultados dos ensaios de migração foram divididos pelo fator de redução do simulante, usado convencionalmente para levar em conta a maior capacidade extrativa do simulante D ou D', em relação a capacidade extrativa do alimento em questão. No caso de carne, os resultados dos ensaios de migração devem ser divididos por 4.

**AVISO: As opiniões e interpretações expressas abaixo são baseadas nos resultados obtidos a partir do item ensaiado, aplicáveis somente para os ensaios em que os parâmetros de especificação estão inclusos nesse relatório e também não fazem parte do nosso escopo de acreditação.**

Resumo de Resultados :

| Teste Solicitado :  | Legislação  | Avaliação |
|---|---|-----------|
| Migração Total - Água Deionizada  | Resoluções RDC ANVISA nº 51 de 2010 e RDC ANVISA nº 105, 1999   | Atende    |
| Migração Total - Solução Aquosa 95% Etanol (v/v)                            | Resoluções RDC ANVISA nº 51 de 2010 e RDC ANVISA nº 105, 1999   | Atende    |
| Migração Específica de DOW1 - Água Deionizada                               | Resolução RDC ANVISA nº 56 de 2012                              | Atende    |
| Migração Específica de DOW1 - Solução Aquosa 95% Etanol (v/v)               | Resolução RDC ANVISA nº 56 de 2012                              | Atende    |
| Migração Específica de DOW 5 - Água Deionizada                              | Resolução RDC ANVISA nº 56 de 2012                              | Atende    |
| Migração Específica de DOW5 - Solução Aquosa 95% Etanol (v/v)               | Resolução RDC ANVISA nº 56 de 2012                              | Atende    |
| Migração Específica de Estearato de Zinco - Água Deionizada                 | Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012 | Atende    |
| Migração Específica de Estearato de Zinco - Solução Aquosa 95% Etanol (v/v) | Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012 | Atende    |
| Migração Específica de DOW6 - Água Deionizada                               | Resolução RDC ANVISA nº 326 de 2019                             | Atende    |
| Migração Específica de DOW6 - Solução Aquosa 95% Etanol (v/v)               | Resolução RDC ANVISA nº 326 de 2019                             | Atende    |
| Migração Específica de DOW10 - Solução Aquosa 95% Etanol (v/v)              | Resolução RDC ANVISA nº 326 de 2019                             | Atende    |
| Migração Específica de DOW10 - Água Deionizada                              | Resolução RDC ANVISA nº 326 de 2019                             | Atende    |
| Migração Específica de DOW11 - Água Deionizada                              | Resolução RDC ANVISA nº 326 de 2019                             | Atende    |
| Migração Específica de DOW11 - Solução Aquosa 95% Etanol (v/v)              | Resolução RDC ANVISA nº 326 de 2019                             | Atende    |
| Migração Específica de DOW9 - Solução Aquosa 95% Etanol (v/v)               | Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012 | Atende    |

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| Teste Solicitado :                            | Legislação  | Avaliação |
|---|---|-----------|
| Migração Específica de DOW9 - Água Deionizada | Resoluções RDC ANVISA nº 326 de 2019 e RDC ANVISA nº 56 de 2012 | Atende    |

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Foto :



Foto autenticada pela SGS somente no relatório original

\*\*\* Final do Relatório \*\*\*

Os ensaios foram realizados no laboratório SGS do Brasil, localizado no endereço citado no rodapé deste relatório.

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