



## Test Report

No. BR2300984 Rev. 0

Date: Barueri, 05 Apr 2023

Page 1 of 4

SMURFIT KAPPA DO BRASIL INDUSTRIA DE EMBALAGENS FORTALEZA LTDA.  
RUA PROFESSOR HENRIQUE CHAVES  
975  
MARANGUAPE, CE 61946220  
BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: CORRUGADO DUPLO  
VEJA C/IMP MADE IN BRAZIL

SGS Order No. : 40000003889  
Total of Sample : 01 SAMPLE  
Lot Number : 35074-3/14.02.007726-6  
Project : VEJA  
Test Packaging : PAPER and CARDBOARD  
Sample composed of fibers of plant origin : YES  
Sample contains PVC or recycled material in the composition : NO  
water repellent material : NO  
Sample covered with paints or varnishes : YES  
Sample based on PU : NO

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

Proposal Number : C&P PR23-324842 REV00  
Sample Receiving Date : 21 Mar 2023  
Test Performing Period : 23 Mar 2023 - 05 Apr 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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Sample Photo :



SGS authenticate the photo on original report only

Signed for and on behalf of  
SGS do Brasil Ltda.

Alessandra Shimizu  
Laboratory Manager CRQ 04245592

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Page 3 of 4

Test Results :

### Test Part Description :

Item No.	SGS Sample ID	Description
1	BR2300984.001	CORRUGADO DUPLO VEJA C/IMP MADE IN BRAZIL

### 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
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
Nonylphenol ethoxylates (NPEO)	9016-45-9	-	20.00	mg/kg	21.80
Octylphenol ethoxylates (OPEO)	9002-93-1	-	20.00	mg/kg	ND
Sum of NPEO and OPEO		Max. 100.00	-	mg/kg	21.80

### Formaldehyde

Test Method : With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis.

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
Formaldehyde	50-00-0	Max. 150.00	16.00	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
Cadmium (Cd)	7440-43-9	-	5.00	mg/kg	ND
Mercury (Hg)	7439-97-6	-	0.10	mg/kg	ND
Lead (Pb)	7439-92-1	-	0.13	mg/kg	3.89
Chromium (Cr)	7440-47-3	-	0.13	mg/kg	24.14
Sum		Max. 100.00	-	mg/kg	28.03

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**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.

**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
Nonylphenol (NP) and Octylphenol (OP)	Sample preparation by solvent extraction (EN ISO 21084: 2019), analysis performed by GC-MS.	PASS
Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)	Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-MS.	PASS
Formaldehyde	With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis.	PASS

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

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

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