

Test Report

No. HKTEC2206388401

Date: 15 Dec 2022

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EMBALAGENS MARA LTDA
AV. DONA RUYCE,
FERRAZ ALVIM,
631-JD. RUYCE -DIADEMA /SP

The following sample(s) was/were submitted and identified on behalf of the clients as : CAIXA DE PAPELÃO
ONDULADO IMPRESSO BR2205095EXT

SGS Job No. : 5150856 - HK
Date of Sample Received : 06 Dec 2022
Testing Period : 06 Dec 2022 - 13 Dec 2022
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : The test results of submitted sample(s) do not exceed the reference limit.

Signed for and on behalf of
SGS Hong Kong Limited.



Wong Ka Ming, Polly
Chemist

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	HKT22-063884.001	Brown paper w/ multicolor printing

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

IEC61249-2-21 - Halogen

Test Method : With reference to EN 14582: 2016, determination by Ion Chromatograph (IC) method. (Decision Rule: please refer to appendix 1: Category 1)

Test Item(s)	Limit	Unit	MDL	001
Bromine (Br)	900	mg/kg	50	ND
Conclusion				PASS

Notes :

The reference limit is referred from IEC61249-2-21.

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Appendix 1

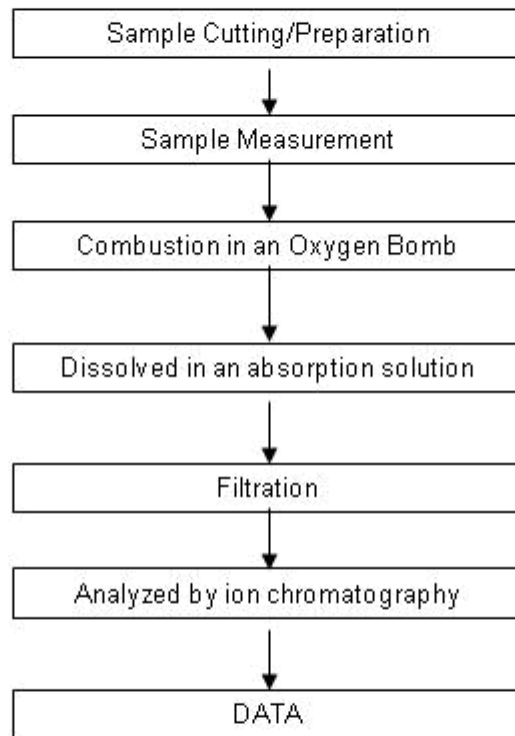
Category	Decision Rule Statement
1	<p>The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U95$) in ILAC-G8:09/2019 Clause 4.2.3.</p> <p>A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."</p> <p>B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%."</p> <p>C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%."</p> <p>D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.</p>
2	<p>The decision rule for conformity reporting is based on BS EN 1811:2011+A1:2015: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.</p>
3	<p>The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement".</p>
4	<p>The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1-(comparison to standard and interpretation of result)</p>
5	<p>The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.</p>
6	<p>The decision rule for conformity reporting is according to the GB/T 26125-2011 Annex A to H</p>
7	<p>The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-17 section 4.3.5)</p>
8	<p>The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)</p>
Remark	<p>If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.</p>

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Flowchart for Halogen Free Test

Method: BS EN14582:2016



Operator: Tang Ying Sam
 Supervisor: Chan Chun Kit (Dickson)

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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