

TEST REPORT

No. : CQMR260700046301

Date : Jul 17, 2026

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CUSTOMER NAME: XIAMEN SHIKAIWEI PACKAGING CO.,LTD.
FUJIAN HE XIN PACKING CO.,LTD.
ADDRESS: No. 19 Wuli Road, Xinmin Town, Tong'an District, Xiamen City
No. 200 jingtai road, Xingtai Industrial Zone, Changtai District, Fujian
Province

Sample Name : Corrugated cardboard

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : XMP26-003426

Date of Receipt : Jul 09, 2026

Testing Start Date : Jul 09, 2026

Testing End Date : Jul 17, 2026

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services (Chongqing) Co., Ltd.



Lyra Cheng
Authorized signatory



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Test Item: Recyclability Assessment	Result
Sample Description: Paper	Recyclable
Standard: EN 13430:2004 (see note 1)	

Assessment Summary:

According to the test result of Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025), published by CEPI, it is technically recyclable in a recycling mill with conventional process.

The total (Pb + Cd + Cr VI + Hg) satisfies the Regulation (EU) 2025/40 (Packaging and Packaging Waste Regulation, PPWR).

In conclusion, the sample is recyclable in accordance with EN 13430:2004.

Note:

1. According to Approval of the draft Commission Notice on the Guidance document for Regulation (EU) 2025/40 on packaging and packaging waste (Brussels, 30.3.2026 C (2026) 2151 final), until the date of application of Article 6(2)(a) of the PPWR on design for recycling requirements, manufacturers must comply only with the recyclability requirement in accordance with the PPWD and the related harmonised standard EN 13430:2004 - Requirements for packaging recoverable by material recycling.
2. The result will no longer applicable when the structure design of the sample is changed or assembled with other components into post process products.



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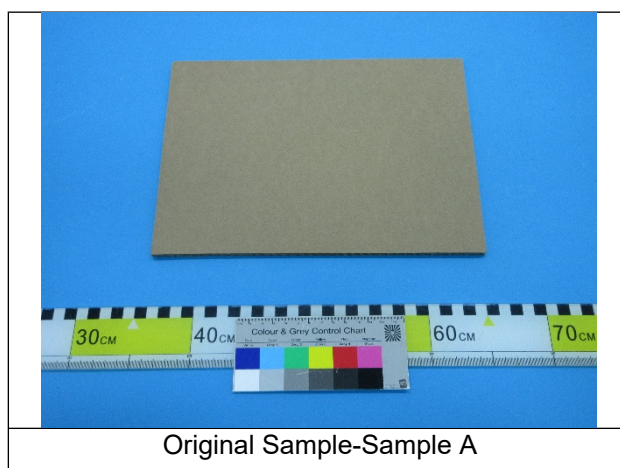
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Original Sample Photo:



Original Sample-Sample A



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EN 13430:2004 Table C.1		
Criteria	Response	Reference
1 Is design and control of all stages of production, packing/filling including the materials used sufficient to maintain the suitability of the packing for the recycling process?	Satisfied.	According to the test result of Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025), it is technically recyclable in a recycling mill with conventional process.
2 Does the design and control of components used and of the method of construction facilitate effective empty?	N/A	The product be packaged is uncertain, this item has not been tested.
3 Does the design and control of components used and of the method of construction facilitate the end-user role of separation, when necessary to assist collection?	Satisfied.	It is single component, which is easy for end-users to separate and collect.
4 Does the design and control of components used and the method of construction ensure compatibility with collection and sorting systems?	Satisfied.	According to the test result of Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025), it is compatibility with collection and sorting systems.
5 Is the method of construction, and the combination of raw materials and components (including additives) suitable for the recycling process?	Satisfied.	According to the test result of Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3



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			(February 2025), it is technically recyclable in a recycling mill with conventional process.
6	Are any necessary systems of sorting, in preparation for the recycling process, suitable for the achievement of material recycling?	Satisfied.	There is suitable sorting system now.
NOTE: N/A-Not Applicable.			



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Test Data:

1. Test Item: Recyclability Assessment of Paper Packaging	Recyclability Evaluation
Sample description: Paper	Technically recyclable in a recycling mill with conventional process.
Standard: Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025)	

Summary of the results:

Test Item	Result	Recyclability Score
Coarse Reject (CR)	0	/
Fine Reject (FR)	20.1%	/
Total Screening Yield (TSY)	81.9%	17
Evaporation Residue (ER)	38.9 mg/g	-2
Visual Impurities (VI)	Level 1	0
Sheet Adhesion (SA)	Level 1	0
Total Score		15



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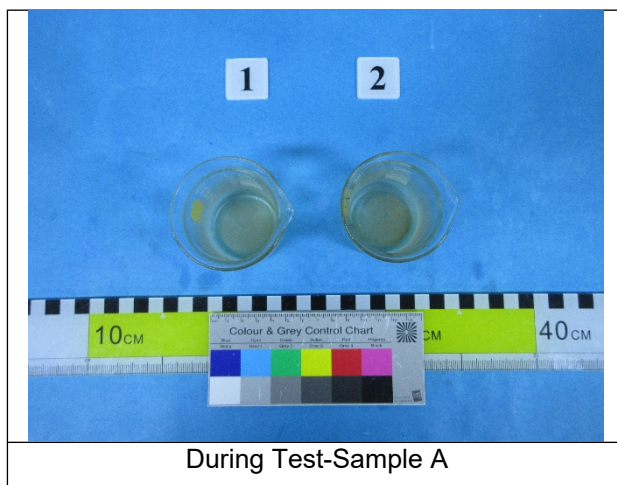
1.1. Test Item: Evaporation Residue

Test Method: Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025) Section 8.2.1

Test Result:

Test Item	Test Result
Evaporation Residue	38.9 mg/g

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Standard Lab Pulps Dissociation	IMT-SJ01	CQMR-E360-1	2026-07-04	2027-07-03
Electronic Balance	FA2104J	CQMR-E001-1	2025-09-03	2026-09-02
Oven	UF110	CQMR-E104-4	2026-06-14	2027-06-13



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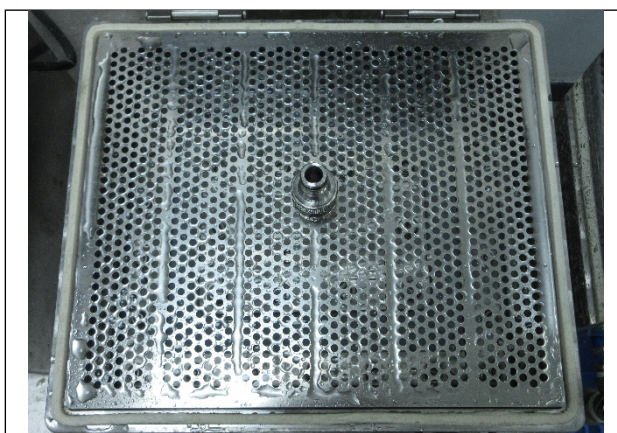
1.2. Test Item: Coarse Reject Test

Test Method: Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025) Section 8.3

Test Result:

Test Item	Test Result
Coarse Reject	0

Test Photo:



During Test-Sample A



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Standard Lab Pulps Dissociation	IMT-SJ01	CQMR-E360-1	2026-07-04	2027-07-03
Somerville Tester	IMT-PBSJ01	CQMR-E157-2	2026-01-08	2027-01-07
Electron Balance	JJ5000Y	CQMR-E001-2	2025-09-03	2026-09-02
Electronic Balance	FA2104J	CQMR-E001-1	2025-09-03	2026-09-02
Oven	UF110	CQMR-E104-4	2026-06-14	2027-06-13
Rapid-Köthen Standard Sheet Former	IMT-CP01A	CQMR-E156-1	2026-07-04	2027-07-03

1.3. Test Item: Sheet Adhesion Test and Visual Appearance Test of the Accept of the Coarse Screening

Test Method: Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025) Section 8.5

Test Result:

Test Item	Test Result
Visual Impurities	Level 2
Sheet Adhesion	Level 1



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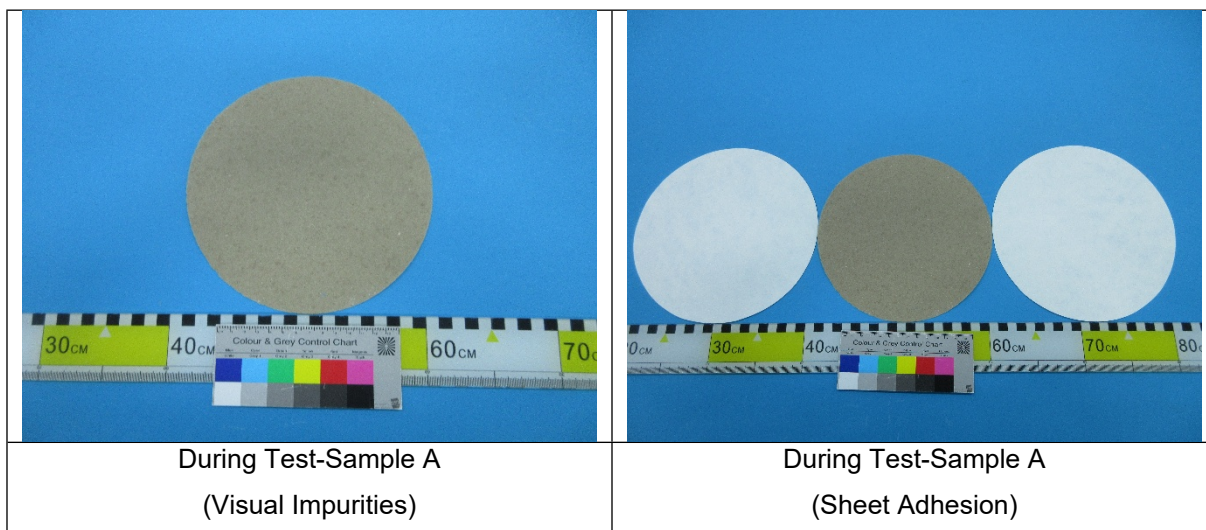
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electronic Balance	FA2104J	CQMR-E001-1	2025-09-03	2026-09-02
Electronic Balance	JJ5000Y	CQMR-E001-2	2025-09-03	2026-09-02
Rapid-Köthen Standard Sheet Former	IMT-CP01A	CQMR-E156-1	2026-07-04	2027-07-03

1.4. Test Item: Fine Reject Test

Test Method: Harmonised European Laboratory Test Method to Generate Parameters Enabling the Assessment of the Recyclability of Paper and Board Products in Recycling Mills with Conventional Process (Part I) Version 3 (February 2025) Section 8.6

Test Result:

Test Item	Test Result
Fine Reject	20.1%



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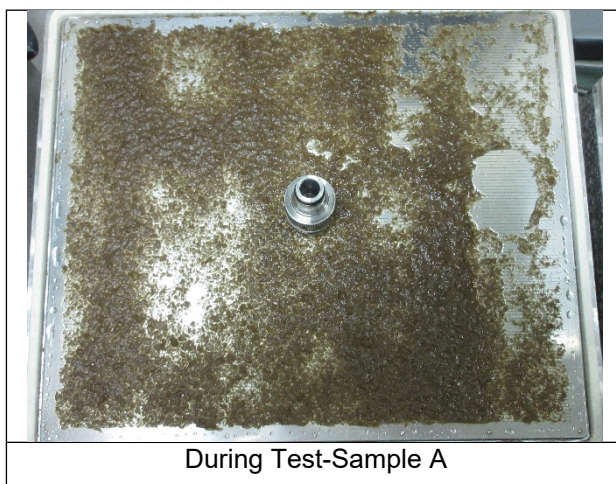
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Somerville Tester	IMT-PBSJ01	CQMR-E157-2	2026-01-08	2027-01-07
Electron Balance	JJ5000Y	CQMR-E001-2	2025-09-03	2026-09-02
Electronic Balance	FA2104J	CQMR-E001-1	2025-09-03	2026-09-02
Oven	UF110	CQMR-E104-4	2026-06-14	2027-06-13

1.5. Test Item: Sheet Adhesion Test and Visual Appearance Test of the Accept of the Fine Screening
 Test Method: Harmonised European Laboratory Test Method to Generate Parameters Enabling the
 Assessment of the Recyclability of Paper and Board Products in Recycling Mills with
 Conventional Process (Part I) Version 3 (February 2025) Section 8.7

Test Result:

Test Item	Test Result
Visual Impurities	Level 1
Sheet Adhesion	Level 1



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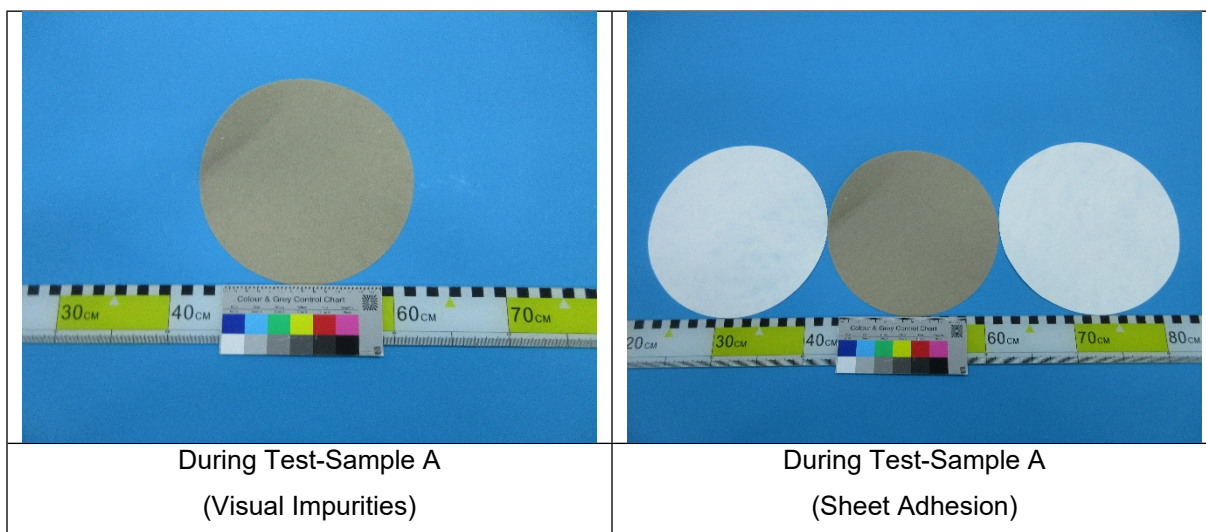
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Rapid-Köthen Standard Sheet Former	IMT-CP01A	CQMR-E156-1	2026-07-04	2027-07-03
Electronic Balance	FA2104J	CQMR-E001-1	2025-09-03	2026-09-02
Electronic Balance	JJ5000Y	CQMR-E001-2	2025-09-03	2026-09-02



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TEST REPORT

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1.6. Test Item: Recyclability Evaluation

Test Method: Fibre-based Packaging Recyclability Evaluation Protocol Version 1 (January 2025)

Test Result:

Test Item	Result	Recyclability Score
Coarse Reject (CR)	0	/
Fine Reject (FR)	20.1%	/
Total Screening Yield (TSY)	81.9%	17
Evaporation Residue (ER)	38.9 mg/g	-2
Visual Impurities (VI)	Level 1	0
Sheet Adhesion (SA)	Level 1	0
Total Score		15



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Note:

Total score	/100 (Total score composed of Total Screening Yield, Visual Impurities, Sheet Adhesion and Dissolved and Colloidal Substances)	
Technical Recyclability Score for Recycling in mills with conventional process	0-100 Technically recyclable in a recycling mill with conventional process.	<0 Not technically recyclable in a recycling mill with conventional process. Potentially recyclable in mills with other recycling process types.*
Score Component Breakdown	Total Screening Yield Score	
	Score	Description
	100-90	The packaging creates a high screening yield in a recycling mill with conventional process and is therefore considered 'best in class'.
	89-70	The packaging creates an acceptable screening yield, but the rejects could already have an impact in a recycling mill with conventional process
	69-50	The screening yield of the packaging is high for a recycling mill with conventional process, but it is suggested that the packaging should be further optimised for recycling.
	49-0	This packaging creates a significant amount of rejects which can lead to technical problems in the screening step in a recycling mill with conventional process.
	<0	The reject of this packaging is too high for the recycling process in a recycling mill with conventional process and should not be recycled in such a process.



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Score Component Breakdown	Visual Impurities Score		
	Level	Score	Description
	Level 1	0	Poses no visual quality issues.
	Level 2	-5	Poses minor visual quality issues.
	Level 3	-15	Poses noticeable visual quality issues
	Level 4**	-30	Poses significant visual quality issues
	Sheet Adhesion Score		
	Level	Score	Description
	Level 1	0	Poses no adhesion issues.
	Level 2	0	Poses minor adhesion issues
	Level 3	Knockout	Poses significant adhesion issues that can have a significant impact on a recycling mill with conventional process and is therefore not recyclable.
	Dissolved and Colloidal Substances Score		
	Score		Description
	0 to -3		DCS expected to pose negligible issues in the process of a recycling mill with conventional process and is therefore considered 'best in class'.
	-3 to -55		DCS expected to have minor issues in the process of a recycling mill with process.
	-55 to -100		DCS expected to have issues in the process of a recycling mill with conventional process and suggest further optimisation.



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	< -100	DCS expected to have major issues in the process of a recycling mill with conventional process. It is recommended to test this product with part III testing in future FBCP process.
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*This result refers to a reference process, the individual evaluation of a recycling mill might be different, depending on available processes and stock preparation concept.

**Warning statement: Level 4 in terms of visual impurities has been assigned to your sample. In the current version of the Evaluation Protocol, Level 4 has not yet been activated as a knockout criterion. Once the representativeness of the lab-scale test and Evaluation Protocol are validated in the next version(s), Level 4 could potentially lead to an overall negative assessment of the recyclability in a recycling mill with conventional process (i.e., deemed not technically recyclable in a recycling mill with conventional process). Until then, we strongly recommend the current results be treated with special care. For example, consider reaching out to the lab running the test asking for more detailed information and observations.



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2. Test Item: Regulation (EU) 2025/40 (Packaging and Packaging Waste Regulation, PPWR) - Total Lead, Cadmium, Mercury and Hexavalent Chromium content

Test Method: With reference to SGS in house method, analysis were performed by ICP-OES/AAS, UV-Vis.

Test Result(s):

Test Item(s)	Limit	Unit	MDL	A
Cadmium (Cd)	-	mg/kg	5	NA
Lead (Pb)	-	mg/kg	5	8
Mercury (Hg)	-	mg/kg	5	NA
Hexavalent Chromium (Cr VI)	-	mg/kg	8	NA
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	8
Conclusion				Pass

Note:

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

Appendix information:

*Test item Regulation (EU) 2025/40 (Packaging and Packaging Waste Regulation, PPWR) - Total Lead, Cadmium, Mercury and Hexavalent Chromium content was carried out by SGS-CSTC Standards Technical Service Co., Ltd. Guangzhou Branch.

*The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc. and just for client internal reference.

***** End of report*****



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