

TEST REPORT

No. : GZMR260702457502-1

Date : Jul 30, 2026

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CUSTOMER NAME: XIAMEN XINHUAGUAN PLASTIC TECHNOLOGY CO., LTD
ADDRESS: No. 897, Tonglong 2nd RD, Xiang'an Industry Torch H-tech District, Xiamen City, Fujian, China

Sample Name : PP bags at least 30% recycled content

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. : XMP26-003627

Date of Receipt : Jul 10, 2026

Testing Start Date : Jul 10, 2026

Testing End Date : Jul 27, 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 Co., Ltd. Guangzhou Branch



Joy Gao
Authorized signatory



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

Assessment Summary:

The sample is made of 95% PP and 2% PE, according to RecyClass Recyclability Methodology Version 2.1, there is plastic recycling pathway for PP and PE. PE is less than 10%, the content of PP and PE is compatible with the recycling process according to the Design for Recycling Guildlines- Natural PP Flexible Films for Household and Commercial Packaging (Last update: March 2026). The Materials satisfy the recycling process of EN 13430: 2004.

The total (Pb + Cd + Cr VI + Hg) satisfies the Regulation (EU) 2025/40 (Packaging and Packaging Waste Regulation, PPWR), which meets the standard EN 13430: 2004.

The colour is unpigmented and transparent. The packaging surface is larger than 100cm², additives added do not increase the density higher than 0.97g/cm³. The seal is made of PE, and the cold adhesive seal is made of Polyacrylate. The content of the cold adhesive seal is less than 6.7%. It can be collected and sorted from the waste stream according to Design for Recycling Guildlines- Natural PP Flexible Films for Household and Commercial Packaging (Last update: March 2026). The structure satisfies the collecting and sorting process of EN 13430: 2004.

To sum up, the sample is recyclable according to 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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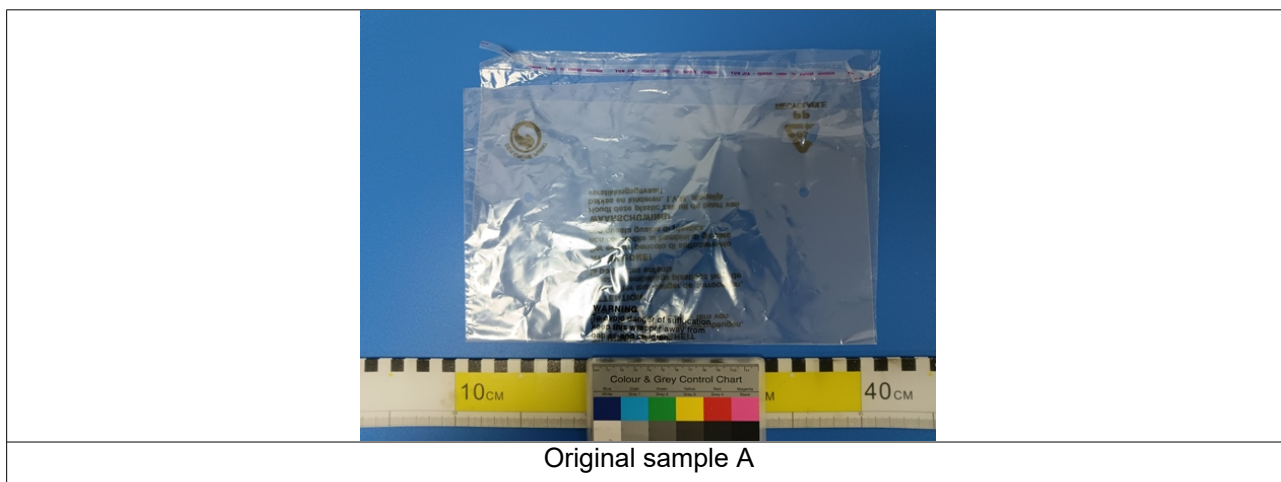
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Original Sample Photo:



Original sample 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.	The sample is made of 95% PP and 2% PE, according to RecyClass Recyclability Methodology Version 2.1, there is plastic recycling pathway for PP and PE. PE is less than 10%, the content of PP and PE is compatible with the recycling process according to the Design for Recycling Guidelines-Natural PP Flexible Films for Household and Commercial Packaging (Last update: March 2026). The Materials satisfy the recycling process of EN 13430: 2004. The total (Pb + Cd + Cr VI + Hg) satisfies the Regulation (EU) 2025/40 (Packaging and Packaging Waste Regulation, PPWR), which meets the standard EN 13430: 2004.
2 Does the design and control of components used and of the method of construction facilitate effective empty?	/	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 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.	The colour is unpigmented and transparent. The packaging surface is larger than 100cm ² , additives added do not increase the density higher than 0.97g/cm ³ . The seal is made of PE, and the cold adhesive seal is made of Polyacrylate. The content



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			of the cold adhesive seal is less than 6.7%. It can be collected and sorted from the waste stream according to Design for Recycling Guidelines- Natural PP Flexible Films for Household and Commercial Packaging (Last update: March 2026). The structure satisfies the collecting and sorting process of EN 13430: 2004.
5	Is the method of construction, and the combination of raw materials and components (including additives) suitable for the recycling process?	Satisfied.	It is compatible with the Design for Recycling Guidelines- Natural PP Flexible Films for Household and Commercial Packaging (Last update: March 2026).
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: Visual Inspection

Test Method: Visual inspection and dimension measurement.

Test Result(s):

Test Item	Test Result
Structure	Film bag whit seal and cold adhesive seal
Color	Unpigmented and transparent
Printing	Coverage <30%

2. Test Item: Disassembly Test

Test Method: Manual disassembly with knife or scissors.

Test Result(s):

No	Component	Percentage (%)
1	Body	97.9
2	Seal	1.0
3	Cold adhesive seal	1.1

Test Photo:



After Test-Sample A



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3. Test Item: Width

Sample Description: A-Sheet

Test Method: ISO 4592:1992

Lab Environmental Condition: $(23 \pm 2)^\circ \text{C}$, $(50 \pm 5) \% \text{RH}$

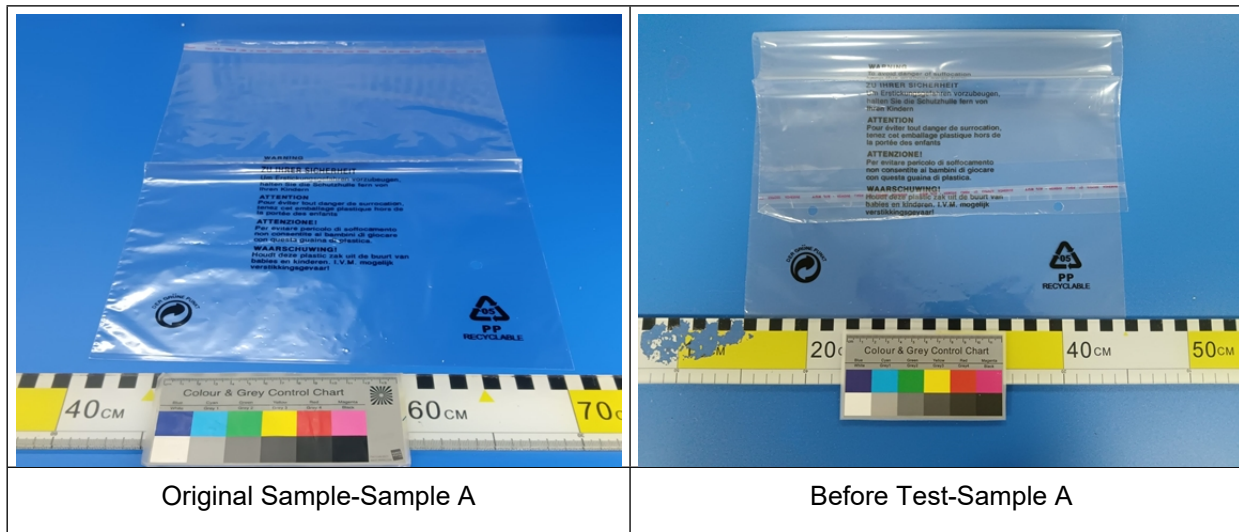
Test Condition:

Measured by Straight Steel Ruler

Test Result:

Test Item	Width, mm
Test Result	301.8

Test Photo:

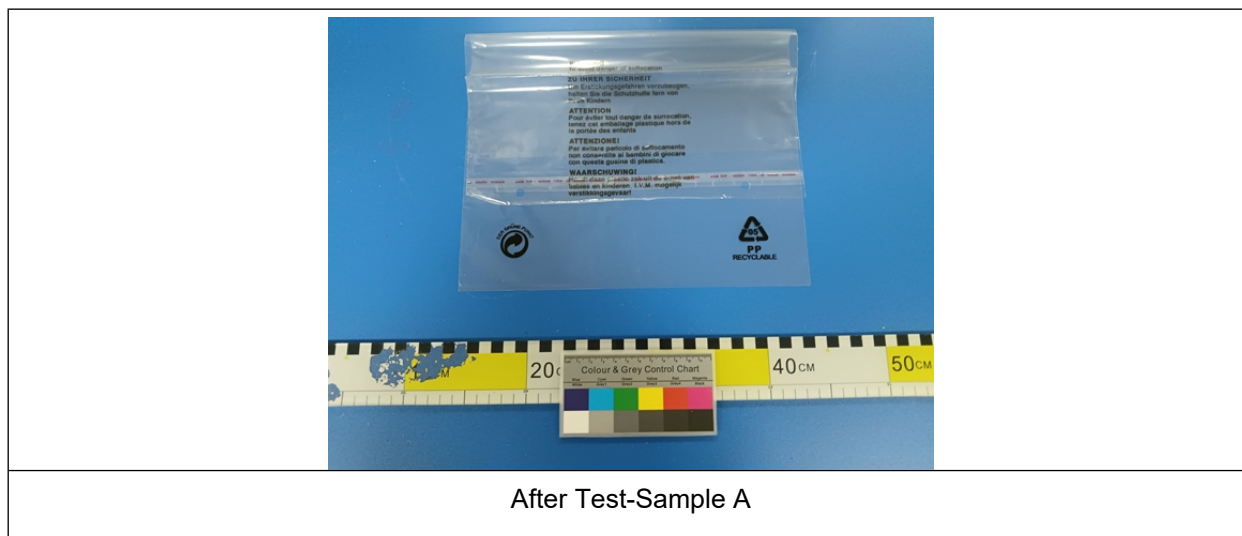


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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Straight Steel Ruler	1m	GZMR-PL-E017-09	2025-12-29	2026-12-28

4. Test Item: Length

Sample Description: A-Sheet

Test Method: ISO 4592:1992

Lab Environmental Condition: (23 ± 2) ° C, (50 ± 5) %RH

Test Condition:

Measured by Straight Steel Ruler

Test Result:

Test Item	Length, mm
Test Result	425.8



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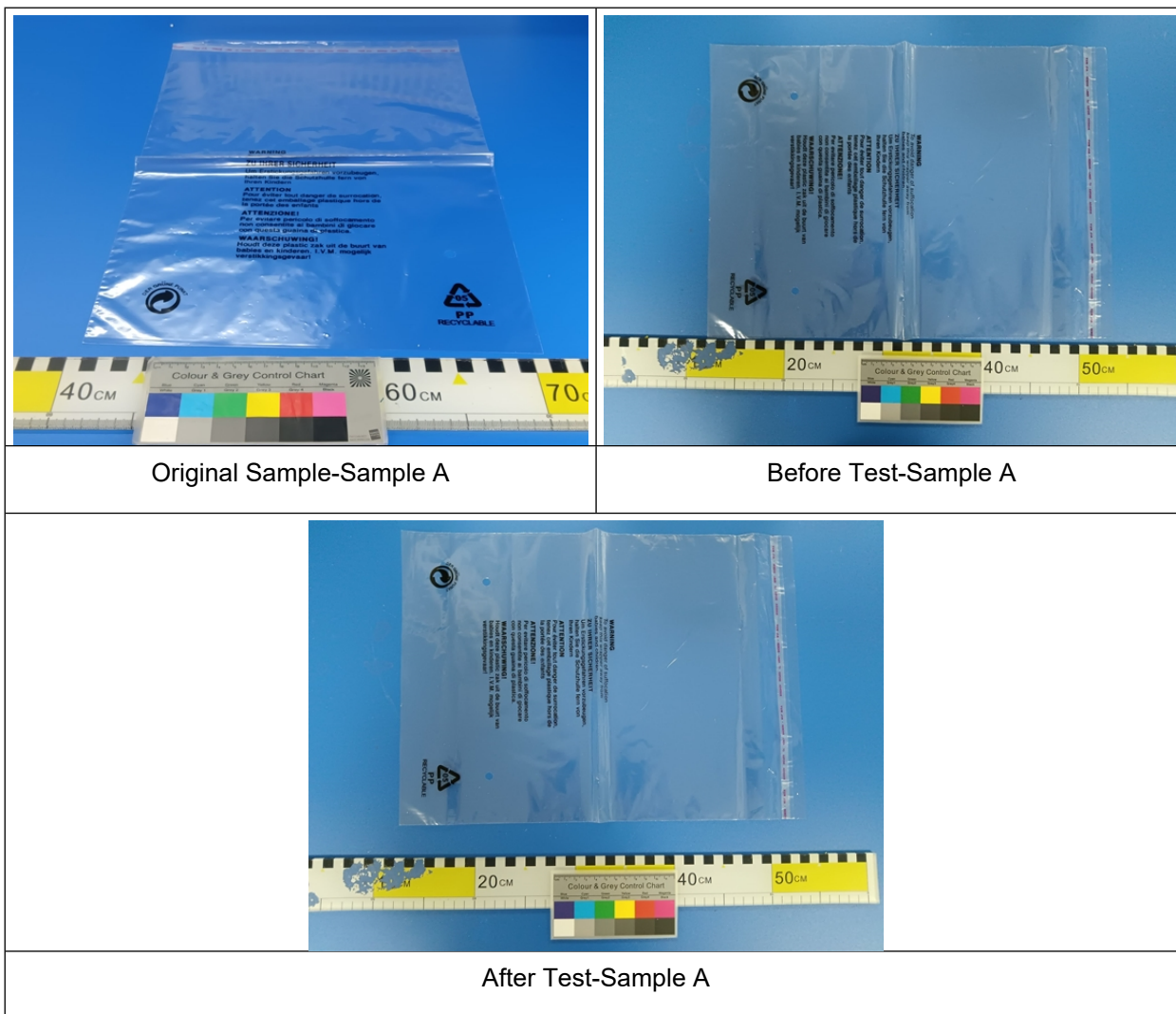
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Test Photo:



Equipment Information:



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Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Straight Steel Ruler	1m	GZMR-PL-E017-09	2025-12-29	2026-12-28

5. Test Item: Density

Sample Description: A-Sheet

Test Method: ISO 1183-1:2025

Pretreatment Condition: $(23 \pm 2)^\circ \text{C}$, $(50 \pm 5) \% \text{RH}$, 72 hLab Environmental Condition: $(23 \pm 2)^\circ \text{C}$, $(50 \pm 5) \% \text{RH}$

Immersion Liquid: Absolute alcohol

Test Method: A

Test Temperature: $(23 \pm 0.5)^\circ \text{C}$

Test Result:

Test Item	Density, g/cm^3
Test Result	0.881

Notes:

Test specimens were cut from the sample.

Test Photo:



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Original Sample-Sample A



Before Test-Sample A



After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Electron balance	XPE204	GZMR-PL-E004-06	2026-02-28	2027-02-27



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6. 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	ND
Lead (Pb)	-	mg/kg	5	ND
Mercury (Hg)	-	mg/kg	5	ND
Hexavalent Chromium (Cr VI)	-	mg/kg	8	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND
Conclusion				PASS

Note:

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

7. Test Item: Composition Analysis

Sample Description: A-Sheet

Test Method:

Fourier Transform Infrared Spectrometer (FTIR)
 Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS)
 Gas Chromatography Mass Spectrometry (GC-MS)
 Energy dispersive X-ray fluorescence spectrometer (EDX)
 Differential Scanning Calorimeter (DSC)
 Thermogravimetric Analyzer (TGA)

Test Result:

Sample A



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No.	Composition	Content, Wt%
1	Polypropylene (PP)	95
2	Polyethylene (PE)	2
3	Styrene-acrylate resin (See note2)	3
4	Polyolefin	
5	Amide lubricants (See note2)	
6	Hindered phenol antioxidants (See note2)	
7	Phosphite antioxidants (See note2)	
8	Pigment (See note2)	

Note:

1. Wt% - weight percent.
2. Styrene-acrylate resin is from inks, which is <1%, Amide lubricants < 1%, Hindered phenol antioxidants < 1%, phosphite antioxidants < 1%, Pigment < 1%.
3. It's possibly from polypropylene copolymer or additional polyolefin toughener.
4. Quantitative data is for reference only.



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TEST REPORT

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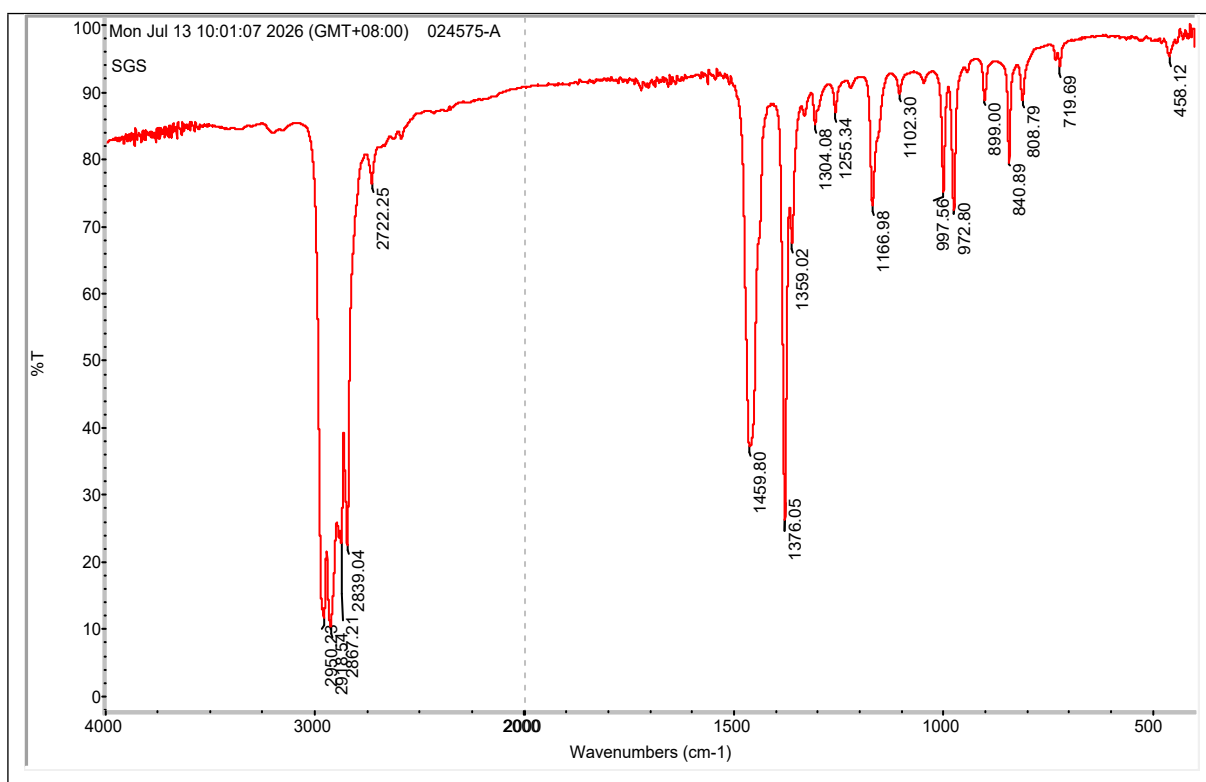
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Appendix

Sample A

Fig.1: FTIR spectrum of original sample



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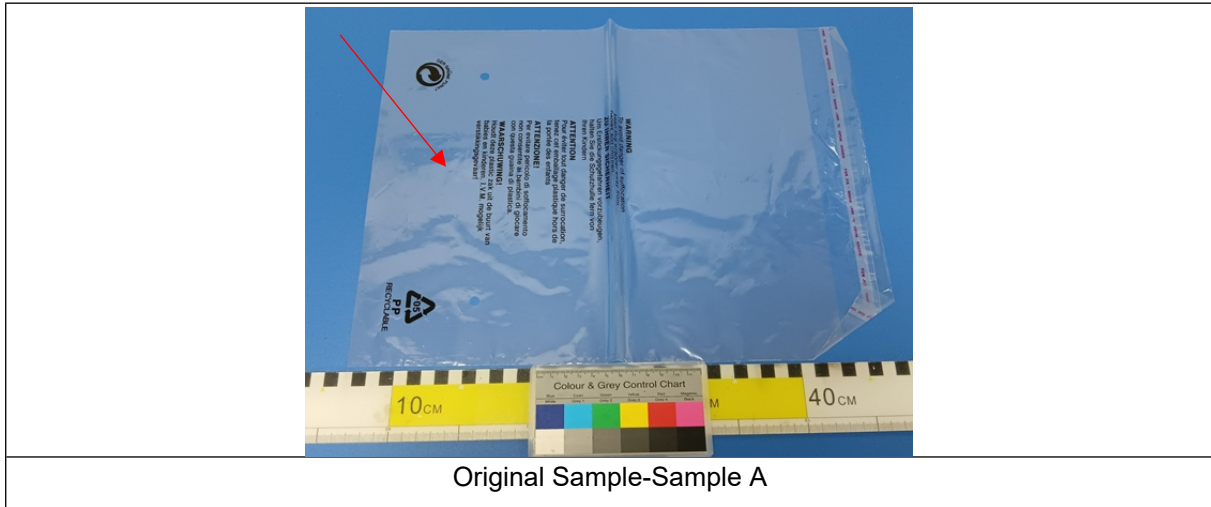
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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Differential Scanning Calorimeter	DSC 300	GZMR-PL-E411	2025-08-18	2027-08-17
Energy Dispersive X-ray Fluorescence Spectrometer	ARL QUANT'X	GZMR-PL-E306	2025-10-15	2026-10-14
Thermogravimetry Analyzer	TA Q500	GZMR-MA-E003	2026-03-30	2027-03-29
Fourier Transform Infrared Spectrometry	Nicolet iS50	GZMR-PL-E329	2025-10-15	2026-10-14
Gas Chromatography-Mass Spectrometry	7890B-5977B	GZMR-PL-E433	2025-05-15	2027-05-14
Pyrolysis Gas Chromatograph Mass Spectrometer	QP2010 ULTRA	GZMR-PL-E432	2025-12-17	2027-12-16



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8. Test Item: Major Composition Qualitative Analysis

Sample Description: A-Sheet

Test Method: ASTM E1252-98(2021)

Test Condition:

Sample Technique: ATR

Test Result:

Sample A1

Test Item	Test Result
Major Composition	Polyethylene(PE)

Sample A2

Test Item	Test Result
Major Composition	Polyacrylate

Sample A3

Test Item	Test Result
Major Composition	Styrene-acrylate resin



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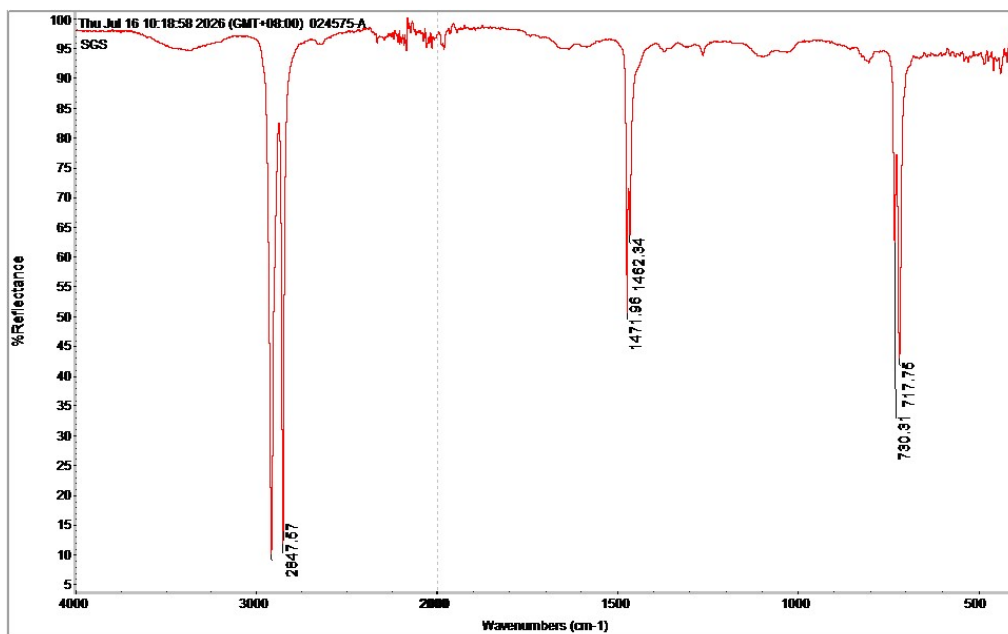
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Appendix

Sample A



SGS-CSI Technical Services Co., Ltd.
Guangzhou Branch Chemical & Reliability Laboratory

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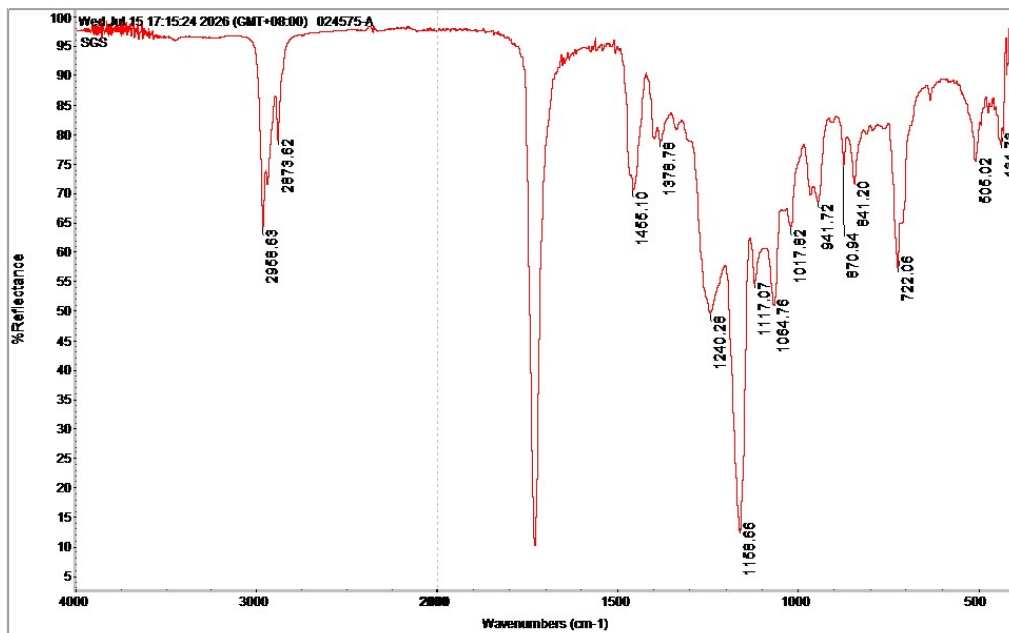
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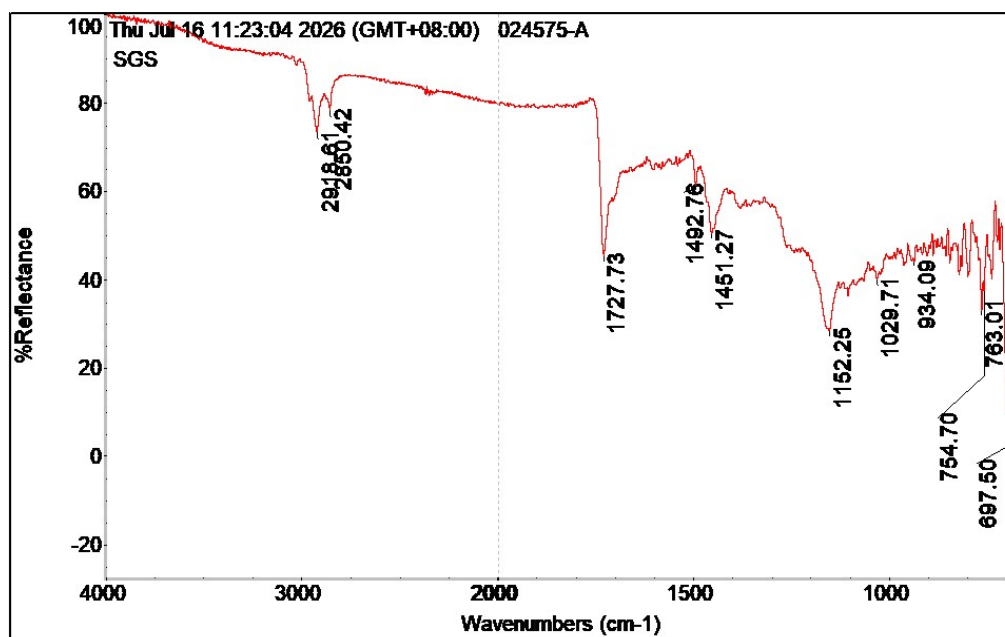
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Test Photo:



Original Sample-Sample A



Original Sample-Sample A1



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Original Sample-Sample A



Original Sample-Sample A2



Original Sample-Sample A3



Original Sample-Sample A3

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Fourier Transform Infrared Spectrometry	Nicolet iS50	GZMR-PL-E216	2025-09-15	2026-09-14

Appendix information:

*Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

*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.

*This test report is an additional version of the original report No.:GZMR260702457501. The customer name and address have been modified, and the original report is valid.

*This test report supersedes test report No. GZMR260702457502, the original report will be invalid from today.

*This test report updates sample name.

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



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