



Test Report

No.: XMHL2310006554SD-1

Date: Oct 25, 2023

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BERTIS UITVAART B.V.
JAN TADEMAWEG 33, HAARLEM, 2031 CT, The Netherlands

Sample Description : PLA EYE CAP

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : GZMR231002950001

Sample Receiving Date : Oct 10, 2023

Test Performing Date : Oct 10, 2023 to Oct 24, 2023

Test Performed : Selected test(s) as requested by applicant

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

Terry Hong
Authorized Signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Composition Analysis	FTIR, PGC-MS, EDX and DSC	See result	/

Note: Pass : Meet the requirements;
 Fail : Does not meet the requirements;
 / : Not Apply to the judgment.

Test Item: Composition Analysis

Sample Description: Finished Good

Test Method:

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

Test Result:

No.	Composition	Content, Wt%
1	Polylactic acid (PLA)	99
2	Diethyl sebacate (DOS)	1
3	Hindered phenol antioxidants	
4	Phosphite antioxidants	
5	Hindered amine light stabilizers	
6	Amide lubricants	

Note:

1. Wt% - weight percent.
2. Quantitative data is for reference only.



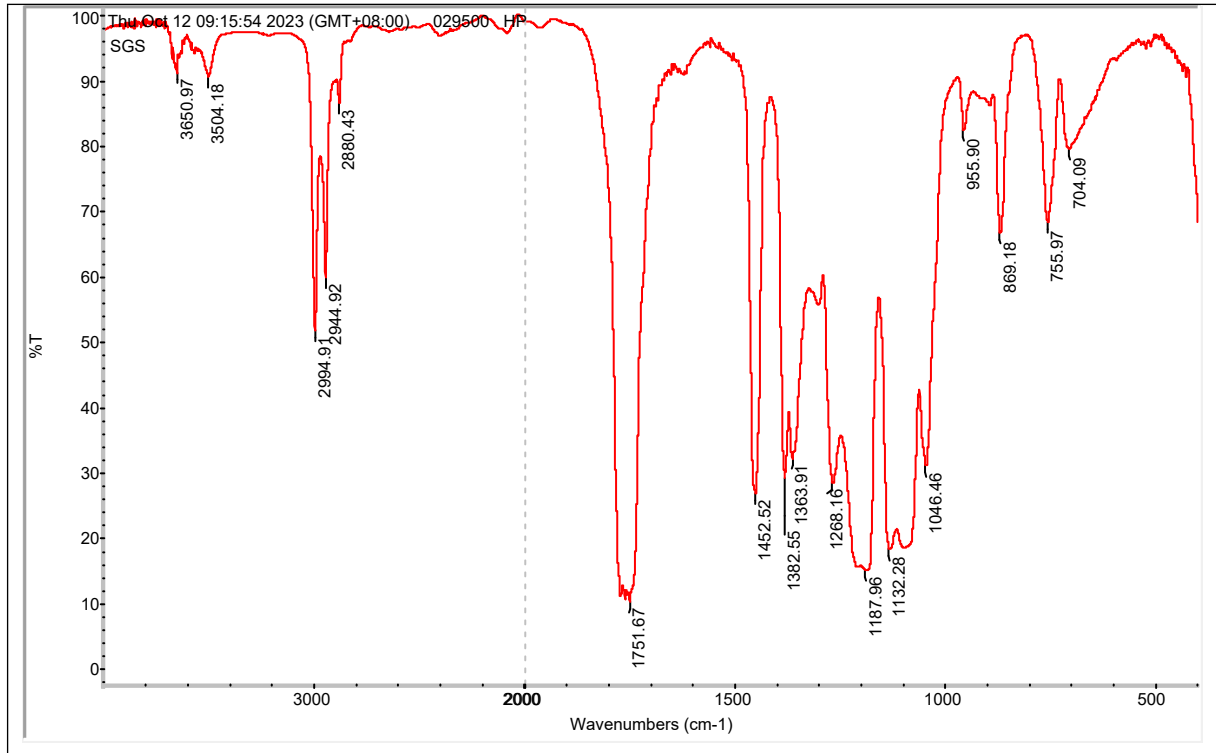
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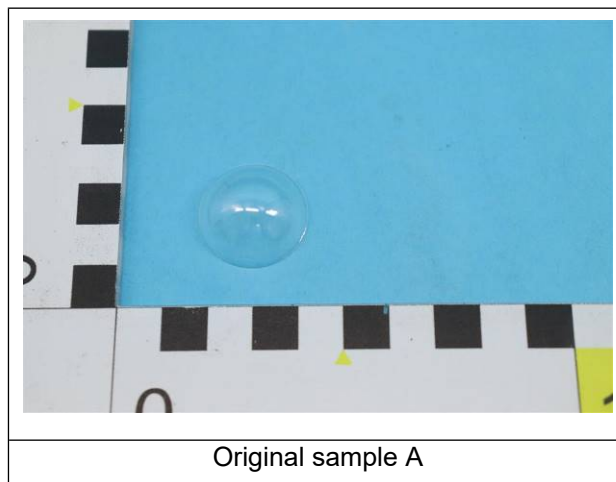
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Fig.1: FTIR spectrum of original sample



Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
FTIR	Nicolet iS50	GZMR-PL-E329	2023-01-18	2024-01-17
FTIR	Nicolet iS50	GZMR-PL-E216	2022-12-15	2023-12-14
PGC-MS	Shimadzu GCMS-QP2010	Chem-019-P	2023-02-10	2025-02-09
EDX	ARL QUANT'X	GZMR-PL-E306	2023-01-18	2024-01-17
DSC	DSC 300	GZMR-PL-E411	2023-09-07	2025-09-06

Remark: This test was subcontracted to Guangzhou Branch, SGS-CSTC Co., Ltd.

Remark: This test report is to supersede No. XMHL2310006554SD test report which was issued on Oct 24, 2023.

And the original test reports (paper and electronic) are invalid.

End of Report



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