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检测
TESTING
CNAS L9939

TEST REPORT

Report No.: FCM2422711 (EN)(R1)
Sample Name: Taisox EVA Film Grade Polymer
Applicant: Formosa Plastics Corporation
Manufacturer: /

南京海关危险货物与包装检测中心

NANJING CUSTOMS DISTRICT TESTING CENTER
FOR DANGEROUS GOODS AND PACKAGING

国家食品接触材料检测重点实验室

STATE KEY TESTING LABORATORY OF FOOD CONTACT MATERIALS





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Test Report

Information of Applicant (provided by the client):

Applicant: Formosa Plastics Corporation

Address: No. 1, Formosa Industrial Complex, Mailiao, Yunlin County 638, Taiwan, R.O.C

Sample Information (provided by the client):

Sample Name: Taisox EVA Film Grade Polymer

Manufacturer: /

Material: EVA, CAS No. 24937-78-8

Description: 7130F, 7140F, 7350F

Quantity: 23pcs

Batch No.: /

Test Information:

Sample No.: FCM2422711

Date Received: 2024/11/20

Test Period: 2024/11/20~2024/12/19

Test Requirement: In accordance with the client's requirements: GB 4806.7-2023

Test Items: Please refer to next page(s).

Conclusion: Please refer to next page(s).

Note: The test report FCM2422711 (EN)(R1) is the revision of FCM2422711 (EN). From the date of issuance of the report FCM2422711 (EN)(R1), the test report FCM2422711 (EN) is void.

Signature:

Issue Date:2025/01/02





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Information of Use (provided by the client)

Contact Food	Use Condition	Use S/V	Cleaning Requirement
/	Repeated use	Unknown	/

Summary of Test Items and Results

Test Item	Resource of Restriction and Requirement	Conclusion
Sensory requirements	GB 4806.7-2023	Pass
General physicochemical indexes	GB 4806.7-2023	Pass
Migration of acetic acid, vinyl ester	GB 4806.7-2023	Pass

Remark:

- (1)LOD/LOQ =Limit of Detection/Limit of Quantification.
- (2)N.D.=not detected (less than LOD/LOQ).
- (3)The test result between LOD and LOQ is for reference only.
- (4)When the limit is expressed as "Non-detectable", the limit of detection/ quantification is equivalent to LOD/LOQ specified in the test method, except for the specific requirements listed in standards.

Test Information:

- (1)As for repeated use articles: 1st time: The migration tests were carried out only one time.
- (2)Correction S/V:6dm² /1L (kg) .

Test Result

1. Sensory requirements

Test Item	Test Result	Restriction and Requirement	Assessment	Test Method
Sensory	Comply	The product shall have normal color. Abnormal odor and unclean thing is not permitted.	Pass	GB 4806.7-2023
The food simulant	Comply	Sensory deterioration of the food simulant obtained from the migration test such as turbidity, precipitate and abnormal odor is not permitted.	Pass	GB 4806.7-2023





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2. General physicochemical indexes

2.1. Overall migration

2.1.1. Test condition: 4%(v/v) acetic acid, 40℃, 10d, 1st time

Test Item	Test Result	Restriction and Requirement	Assessment	Test Method
Overall migration, mg/dm ²	3.2	≤10	Pass	GB 31604.8-2021

Note: (1)In accordance with the client's requirements, the compliance of the test items was checked on the basis of the level of the migration found in the 1st test.

2.1.2. Test condition: 50%(v/v) ethanol, 40℃, 10d, 1st time

Test Item	Test Result	Restriction and Requirement	Assessment	Test Method
Overall migration, mg/dm ²	2.0	≤10	Pass	GB 31604.8-2021

Note: (1)In accordance with the client's requirements, the compliance of the test items was checked on the basis of the level of the migration found in the 1st test.

2.2. Consumption of potassium permanganate

2.2.1. Test condition: water, 60℃, 2h, 1st time

Test Item	Test Result	Restriction and Requirement	Assessment	Test Method
Consumption of potassium permanganate, mg/kg	1.6	≤10	Pass	GB 31604.2-2016

2.3. Heavy metal (as Pb)

2.3.1. Test condition: 4%(v/v) acetic acid, 60℃, 2h, 1st time

Test Item	Test Result	Restriction and Requirement	Assessment	Test Method
Heavy metal (as Pb), mg/kg	<1	≤1	Pass	GB 31604.9-2016 1st method

2.4. Sum of primary aromatic amines released

2.4.1. Test condition: 4%(v/v) acetic acid, 40℃, 10d, 1st time

Test Item	Test Result	LOD/LOQ	Restriction and Requirement	Assessment	Test Method
Migration of 1,4-benzenediamine, mg/kg	N.D.	1.0/3.0μg/kg	/	/	GB 31604.52-2021
Migration of 1,3-benzenediamine, mg/kg	N.D.	1.0/3.0μg/kg	/	/	GB 31604.52-2021
Migration of 2,4-diaminotoluene, mg/kg	N.D.	1.0/3.0μg/kg	/	/	GB 31604.52-2021
Migration of 4,4'-oxydianiline, mg/kg	N.D.	1.0/3.0μg/kg	/	/	GB 31604.52-2021
Migration of benzidine, mg/kg	N.D.	1.0/3.0μg/kg	/	/	GB 31604.52-2021





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Test Item	Test Result	LOD/LOQ	Restriction and Requirement	Assessment	Test Method
Migration of 4,4'-diaminodiphenylmethane, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of aniline, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of o-anisidine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of o-toluidine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 3,3'-dimethyl-4,4'-diaminodiphenylmethane, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 3,3'-dimethoxybenzidine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 3,3'-dimethylbenzidine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2,6-xylydine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2,4'-diaminodiphenylmethane, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2,4-diaminoanisole, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2-methoxy-5-methylaniline, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2,4,5-trimethylaniline, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 4,4'-thiodianiline, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 4-chloroaniline, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2,4-xylydine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2-naphthylamine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 2,2'-diaminodiphenylmethane, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of biphenyl-4-amine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 4-chloro-o-toluidine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 5-nitro-o-toluidine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 3,3'-dichlorobenzidine, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of 4-(phenylazo)aniline, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021





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Test Item	Test Result	LOD/LOQ	Restriction and Requirement	Assessment	Test Method
Migration of 4,4'-methylene-bis-(2-chloroaniline), mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Migration of o-aminoazotoluene, mg/kg	N.D.	1.0/3.0µg/kg	/	/	GB 31604.52-2021
Sum of primary aromatic amines released, mg/kg	<0.010	1.0/3.0µg/kg (each)	Non-detectable(LOD: 0.01mg/kg)	Pass	GB 31604.52-2021

3. Specific migration

3.1. Test condition: 4%(v/v) acetic acid, 40℃, 10d, 1st time

Test Item	Test Result	LOD/LOQ	Restriction and Requirement	Assessment	Test Method
Migration of acetic acid, vinyl ester, mg/kg	N.D.	-/2.5	≤12	Pass	GB 31604.20-2016

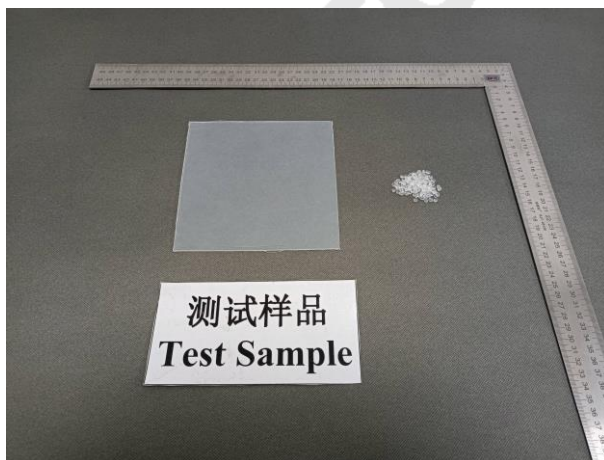
Note: (1)In accordance with the client's requirements, the compliance of the test items was checked on the basis of the level of the migration found in the 1st test.

3.2. Test condition: 50%(v/v) ethanol, 40℃, 10d, 1st time

Test Item	Test Result	LOD/LOQ	Restriction and Requirement	Assessment	Test Method
Migration of acetic acid, vinyl ester, mg/kg	N.D.	-/2.5	≤12	Pass	GB 31604.20-2016

Note: (1)In accordance with the client's requirements, the compliance of the test items was checked on the basis of the level of the migration found in the 1st test.

The picture of submitted sample



*** END ***





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