Test Report No.: 70.431.24.30489.01
Date: 2024-03-08

Applicant:	TAIZHOU DEDAO INDUSTRY CO.,LTD
Address:	NO. 17, BINGANG ROAD, HAIRUN STREET, TAIZHOU, ZHEJIANG, CHINA
Manufacturer:	TAIZHOU DEDAO INDUSTRY CO.,LTD
Product Name:	PVC Desk Mat
Model No:	TZDD-PVC001
Country of Origin:	China
Receipt Date of Sample:	2024-02-01 & 2024-03-05
Date of Testing:	2024-02-01 ~ 2024-02-06 & 2024-03-05 ~ 2024-03-06
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Test Item	Conclusion
1. **EU-Regulation (EU) No 10/2011 and its amendments -Specific Migration of Total Primary Aromatic Amine**	**Pass**
2. **EU-Regulation (EU) No 10/2011 and its amendments -Specific Migration of Primary Aromatic Amine (29)**	**Pass**
3. **Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Specific Migration of vinylidene chloride**	**Pass**
4. **Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Peroxide Value**	**Pass**
5. **Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation - Overall Migration**	**Pass**
6. **Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation - Specific Migration of Heavy Metals**	**Pass**
7. **Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation-Sensory Test**	**Pass**

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable
6. The client specified the test items, materials and test methods.

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center

Prepared by:

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Authorized by:

Neko Ding
Director

Note:

(1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
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For further details, please see "Testing and certification regulation", chapter A-3.4
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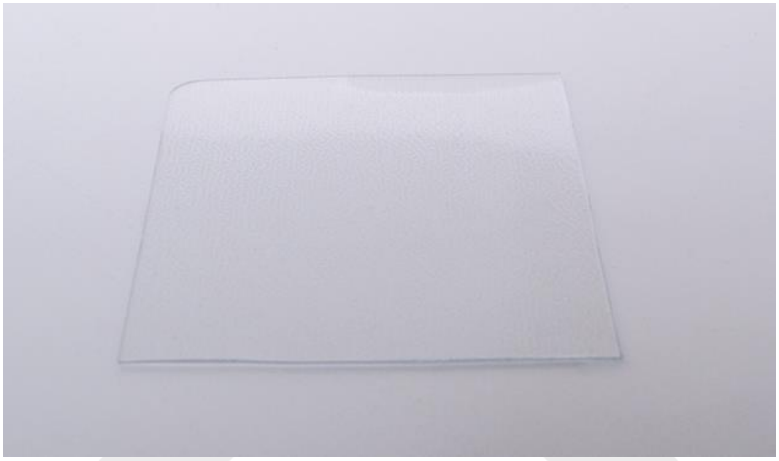
(2) The results relate only to the Items tested.

(3) The test report shall not be reproduced except in full without the written approval of the laboratory

(4) Disclaimer Measurement Uncertainty:
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.
By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

Description of Tested Subject:

Photo provided by client


Sample	Description
001	Transparent soft plastic

Test Result(s):

1. EU-Regulation (EU) No 10/2011 and its amendments -Specific Migration of Total Primary Aromatic Amine

- With reference to EN 13130-1:2004, followed by UV-Vis.
- Test condition: 3% Acetic acid, 70°C for 2 hours
- Sample 001 Migration ratio: 100mL/0.6dm^2

Test Item(s)	Result(s) [mg/kg]			Method Detection Limit [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
	001 1st migration	001 2nd migration	001 3rd migration			
Total Primary Aromatic Amine	ND	ND	ND	0.01	ND	**Pass**

Note: 1. Test condition and simulant were specified by client.

2. EU-Regulation (EU) No 10/2011 and its amendments -Specific Migration of Primary Aromatic Amine (29)

- With reference to EN 13130-1:2004, followed by LC-MS-MS
- Test condition: 3% Acetic acid, 70°C for 2 hours
- Sample 001 Migration ratio: 100mL/0.6dm^2

No.	Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]		
					001 1st migration	001 2nd migration	001 3rd migration
1	4-Aminobiphenyl	92-67-1	0.002	0.002	ND	ND	ND
2	4,4'-Benzidine	92-87-5	0.002	0.002	ND	ND	ND
3	4-Chloro-2-methylaniline	95-69-2	0.002	0.002	ND	ND	ND
4	2-Naphthylamine	91-59-8	0.002	0.002	ND	ND	ND
5	o-Aminoazotoluene	97-56-3	0.002	0.002	ND	ND	ND
6	5-Nitro-o-toluidine	99-55-8	0.002	0.002	ND	ND	ND
7	4-Chloroaniline	106-47-8	0.002	0.002	ND	ND	ND
8	4-Methoxy-1,3-phenylenediamine	615-05-4	0.002	0.002	ND	ND	ND
9	Bis-(4-aminophenyl) methane	101-77-9	0.002	0.002	ND	ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	0.002	0.002	ND	ND	ND
11	3,3'-Dimethoxybenzidine	119-90-4	0.002	0.002	ND	ND	ND
12	o-Tolidine	119-93-7	0.002	0.002	ND	ND	ND
13	3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	0.002	0.002	ND	ND	ND
14	2-Methoxy-5-methylaniline	120-71-8	0.002	0.002	ND	ND	ND
15	4,4'-Methylene bis(o-chloroaniline)	101-14-4	0.002	0.002	ND	ND	ND
16	4,4'-Oxydianiline	101-80-4	0.002	0.002	ND	ND	ND
17	4,4'-Thiodianiline	139-65-1	0.002	0.002	ND	ND	ND
18	o-Toluidine	95-53-4	0.002	0.002	ND	ND	ND
19	2,4-Diaminotoluene	95-80-7	0.002	0.002	ND	ND	ND
20	2,4,5-Trimethylaniline	137-17-7	0.002	0.002	ND	ND	ND
21	o-Anisidine	90-04-0	0.002	0.002	ND	ND	ND
22	4-Amino-azobenzene	60-09-3	0.002	0.002	ND	ND	ND

23	1,3-Phenylenediamine	108-45-2	0.002	0.002	ND	ND	ND
24	2,4-Dimethylaniline	95-68-1	0.002	0.01	ND	ND	ND
25	2,6-Dimethylaniline	87-62-7	0.002	0.01	ND	ND	ND
26	Aniline	62-53-3	0.002	0.01	ND	ND	ND
27	1,4-Phenylenediamine	106-50-3	0.002	0.01	ND	ND	ND
28	2,6-Diaminotoluene	823-40-5	0.002	0.01	ND	ND	ND
29	1,5-Diaminonaphthalene	2243-62-1	0.002	0.01	ND	ND	ND
Conclusion					**Pass**	**Pass**	**Pass**

Note: 1. Test condition and simulant were specified by client.

3. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Specific Migration of vinylidene chloride

- With reference to EN 13130-1:2004, followed by HS-GCMS.
- Test condition: 3% Acetic acid, 70°C for 2 hours
- Sample 001 Migration ratio: 100mL/0.6dm^2

Test Item(s)	**Result(s) [mg/kg]**	**Maximum Permissible Limit [mg/kg]**	**Conclusion**
	001		
Specific Migration of vinylidene chloride	<0.01	0.01	**Pass**

Note: 1. Test condition and simulant were specified by client

4. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Peroxide Value

- With reference to Bundesgesundheitsbl. 40 (1997), 412

Test Item(s)	**Result(s)**	**Maximum Permissible Limit**	**Conclusion**
	001		
Peroxide Value	Absent	Absent	**Pass**

5. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation -Overall Migration

- With reference to EN1186-1:2002 for selection of test methods;
  EN1186-3:2022 aqueous food simulants by total immersion method;
- Sample 001 Migration ratio: 233mL/2.33dm^2

Simulant(s) Used	**Test Condition**	**Maximum Permissible Limit [mg/dm^2]**	**Overall Migration Result(s) [mg/dm^2]**			**Conclusion**
			001 1st migration	**001 2nd migration**	**001 3rd migration**	
3% Acetic acid	70°C for 2 hours	10	<3.0	<3.0	<3.0	**Pass**

Note: 1. mg/dm^2 denotes milligram per square decimeter foodstuff
2. < denotes less than
3. Test condition and simulant were specified by client

6. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation -Specific Migration of Heavy Metals

- With reference to EN 13130-1:2004&ISO 17294-2:2016, followed by ICP-MS.
- Test condition: 3% Acetic acid, 70°C for 2 hours
- Sample 001 Migration ratio: 388mL/2.33dm^2

Test Item(s)	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]			Conclusion
			001 1st migration	001 2nd migration	001 3rd migration	
Iron (Fe)	1	48	ND	ND	ND	**Pass**
Zinc (Zn)	1	5	ND	ND	ND	**Pass**
Copper (Cu)	0.5	5	ND	ND	ND	**Pass**
Manganese (Mn)	0.05	0.6	ND	ND	ND	**Pass**
Cobalt (Co)	0.05	0.05	ND	ND	ND	**Pass**
Barium (Ba)	0.1	1	ND	ND	ND	**Pass**
Lithium (Li)	0.1	0.6	ND	ND	ND	**Pass**
Aluminium (Al)	0.1	1	ND	ND	ND	**Pass**
Nicke (Ni)	0.01	0.02	ND	ND	ND	**Pass**
Antimony (Sb)	0.01	0.04	ND	ND	ND	**Pass**
Arsenic (As)	0.01	0.01	ND	ND	ND	**Pass**
Cadmium (Cd)	0.002	0.002	ND	ND	ND	**Pass**
Chromium (Cr)	0.01	0.01	ND	ND	ND	**Pass**
Lead (Pb)	0.01	0.01	ND	ND	ND	**Pass**
Mercury (Hg)	0.01	0.01	ND	ND	ND	**Pass**
Europium (Eu)	0.01	Sum 0.05	ND	ND	ND	**Pass**
Gadolinium (Gd)			ND	ND	ND	**Pass**
Lanthanum (La)			ND	ND	ND	**Pass**
Terbium (Tb)			ND	ND	ND	**Pass**

Note: 1. mg/kg denotes milligram per kilogram foodstuff
2. ND denotes not detected
3. Test condition and simulant were specified by client

7. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation-Sensory Test

-Test with reference to DIN 10955:2023.
-Test condition: Distilled water, 70°C for 2 hours
-Volume of stimulant:233mL

Sample(s)	Testing Parameter	Grading result(s)	Recommended level	Conclusion
001	Appearance	0.5	<3	**Pass**
	Transfer of taste	0.5	<3	**Pass**
	Transfer of smell	0.5	<3	**Pass**

Note: Available grading are listed as follow:
Grading 0: No perceptible appearance/taste/smell deviation
1: Just perceptible appearance/taste/smell deviation
2: Weak appearance/taste/smell deviation
3: Clear appearance/taste/smell deviation
4: Strong appearance/taste/smell deviation

-End of Test Report-