

## Textile Laboratory

### Test Report

No: TX71593A /2024 /CR

Date: July 22, 2024

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Yes Promotion Co., Ltd.  
No.23, Ln. 430, Fude 1st Rd., Xizhi Dist.,  
New Taipei City 221, Taiwan (R.O.C.)

The following sample was submitted and identified by applicant as:

Sample Description	:	Cotton + T Double-Layer Towel
Color	:	White + CMYK Sublimation
Fiber Content	:	Cotton + Polyester
Fabric Weight	:	492gsm
End Use	:	Towel
Manufacturer/Vendor	:	Yes Promotion Co., Ltd.
Country of Origin	:	Taiwan
Applicant	:	Yes Promotion Co., Ltd.
Sample Receiving Date	:	July 16, 2024
Test Performance Period	:	July 16, 2024 to July 22, 2024
Test Performed	:	Selected testing parts and items specified by client, in accordance with CNS 15290 Safety of Textile (General Requirements): 1) Free Formaldehyde 2) Azo Colorants 3) Organotin 4) Nonylphenol Ethoxylates & Nonylphenols
Test Results	:	For further details, please refer to the following page(s).

**Remark: Test results have been taken from report number No: TX71593 /2024 /CR, Date: July 22, 2024**

Signed for and on behalf of  
SGS Taiwan Ltd.

Cherry Kuo

Kuo Ling, Cherry  
Supervisor



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Test Results:

**1. Free Formaldehyde**

Test Method: With reference to CNS 15580-1 L3271-1:2012 – Textile – Determination of Formaldehyde Part 1: Free and hydrolyzed formaldehyde (water extraction method). Analysis was conducted with UV/VIS spectrophotometer.

	Result (mg/kg)	CNS 15290 Recommend Max. Limit (mg/kg)			
		Baby	Direct contact with skin	Nondirect contact with skin	Interior Decoration
Formaldehyde	ND	20	75	300	300

Sample Description:

1. Cotton + T Double-Layer Towel

Note: ND: Not Detected  
Reporting Limit: 16 mg/kg

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Test Results:

**2. Azo Colorants**

Test Method: According to CNS 16113-1 L3280-1:2019/CNS 16113-3 L3280-3:2019. Analysis was conducted with GC-MS/HPLC DAD.

		<u>Result</u> (mg/kg)	<u>CNS 15290</u> <u>Recommend Max.</u> <u>Limit (mg/kg)</u>
	<u>CAS No.</u>	With extracting	
		<b>1+2+3</b>	
4-Aminobiphenyl	92-67-1	ND	30
Benzidine	92-87-5	ND	30
4-Chlor-o-toluidine	95-69-2	ND	30
2-Naphthylamine	91-59-8	ND	30
o-Aminoazotoluene	97-56-3	ND	30
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND	30
4-Chloroaniline	106-47-8	ND	30
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND	30
4,4'-Diaminodiphenylmethane	101-77-9	ND	30
3,3'-Dichlorobenzidine	91-94-1	ND	30
3,3'-Dimethoxybenzidine	119-90-4	ND	30
3,3'-Dimethylbenzidine	119-93-7	ND	30
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	ND	30
p-Cresidine	120-71-8	ND	30
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	30
4,4'-Oxydianiline	101-80-4	ND	30
4,4'-Thiodianiline	139-65-1	ND	30
o-Toluidine	95-53-4	ND	30
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	ND	30
2,4,5-Trimethylaniline	137-17-7	ND	30
O-Anisidine	90-04-0	ND	30
4-aminoazobenzene	60-09-3	ND	30

Sample Description:

1. Cotton + T Double-Layer Towel – red printed portion
2. Cotton + T Double-Layer Towel – yellow printed portion
3. Cotton + T Double-Layer Towel – black printed portion

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Note: ND = Not detected  
Reporting Limit = 5 mg/kg

Remark: 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

CNS 16113-1 L3280-1 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, CNS 16113-3 L3280-3 will be employed to verify the presence of 4-AAB.

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Test Results:

**3. Organotin**

Test Method: According to CNS 15290 L1036 Section 5.4/CNS 15853-1 S2180-1. Analysis was conducted by GC/MS.

	<b>Result (mg/kg)</b>	<b>CNS 15290 Recommend Max Limit (mg/kg)</b>			
		Baby	Direct contact with skin	Nondirect contact with skin	Interior Decoration
	<b>1</b>				
Tributyl Tin (TBT)	ND	0.5	1.0	1.0	1.0
Triphenyl Tin (TPT)	ND	0.5	1.0	1.0	1.0

Sample Description:

1. Cotton + T Double-Layer Towel

Note: Reporting Limit: 0.1 mg/kg  
ND = Not Detected

**4. Nonylphenol Ethoxylate (NPEO) and Nonylphenol (NP)**

Test Method: According to CNS 15579 L3270:2023. Analysis was conducted with LC/MS.

	<b>Result (mg/kg)</b>	<b>CNS 15290 Recommend Max. Limit (mg/kg)</b>
	<b>1</b>	
Nonylphenol Ethoxylate	ND	/
Nonylphenol	ND	/
Sum	ND	100

Sample Description:

1. Cotton + T Double-Layer Towel

Note: ND: Not Detected  
Reporting Limit: Nonylphenol Ethoxylate: 1 mg/kg  
Nonylphenol: 10 mg/kg

Above test items were tested by relevant SGS laboratory.

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Sample Photo



\*\*\* End of Report \*\*\*

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