

## Textile Laboratory

### Test Report

No: TX12076A /2021 /PL

Date: Jan. 28, 2021

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Acegreen Eco-Material Technology Co., Ltd.  
No.50, Ln. 20, Sec. 1, Nantong Rd., Ershui Township,  
Changhua County 53041, Taiwan (R.O.C.)

The following sample was submitted and identified by applicant as:

Sample Description : Medical Face Mask

Color : Shiny Black

Fiber Content : PP/PE

Manufacturer/Vendor : Acegreen Eco-Material Technology Co., Ltd.

Country of Origin : Taiwan

Applicant : Acegreen Eco-Material Technology Co., Ltd.

Sample Receiving Date : Jan. 26, 2021

Test Performance Period : Jan. 26, 2021 to Jan. 28, 2021

Test Performed : Selected testing parts and items specified by client, in accordance with CNS 15290 Safety of Textile (General Requirements):  
In accordance with CNS 15290 Safety of Textile (General Requirements):  
1) Free Formaldehyde  
2) Lead  
3) Azo Colorants  
4) Organotin

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

**Remark: Test results have been taken from report number TX12076/2021/PL, Date: Jan. 28, 2021**

Signed for and on behalf of  
SGS Taiwan Ltd.

*Ronnie Chang*

Chang Chia Hao, Ronnie  
Asst. Manager



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Test Results:

**1. Free Formaldehyde**

Test Method: With reference to CNS 15580-1 L3271-1 – 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

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

**2. Migration of Lead**

Method: According to CNS 4797-2 Z 7066-2, analysis was conducted by ICP-OES

	Result (mg/kg)	CNS 15290 Recommend Max. Limit (mg/kg)
Lead	ND	90

Note: ND = Not Detected  
Report Limit: 1 mg/kg

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Test Results:

**3. Azo Colorants**

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

		Result (mg/kg)	CNS 15290 Recommend Max. Limit (mg/kg)
	CAS No.	With extracting	
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

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Note: ND = Not Detected

Report 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:

**4. 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
Tributyl Tin (TBT)	ND	0.5	1.0	1.0	1.0
Triphenyl Tin (TPT)	ND	0.5	1.0	1.0	1.0

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

Above test items were tested by relevant SGS laboratories.

Remark: This test report is the test result issued by the testing institution as requested by the consignor.

Sample Photo



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

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