

## Textile Laboratory

### Test Report

No: TX20705 /2021 /LI

Date: Feb. 20, 2021

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Taiwan Jing Fu Material Co., Ltd.  
No. 18, Ln. 83, Huaqiao St., Huatan Township,  
Changhua County 503, Taiwan (R.O.C.)

The following sample was submitted and identified by applicant as:

Sample Description : One sample of non-woven

Color : Blue

Fiber Content : PP

Applicant : Taiwan Jing Fu Material Co., Ltd.

Sample Receiving Date : Feb. 08, 2021

Test Performance Period : Feb. 08, 2021 to Feb. 20, 2021

Test Performed : Selected testing parts and items specified by client, in accordance with  
CNS 15290 Safety of Textile (General Requirements):  
『Azo Colorants』

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

Signed for and on behalf of  
SGS Taiwan Ltd.

*Iris Chu*

Chu Pei Hsin, Iris  
Test Specialist



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Test Results:

**Azo Colorants**

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

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

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.

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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.

Tested by relevant SGS laboratory.

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

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

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