

Textile Laboratory

Test Report

No: TXA1364A /2020 /LI

Date: Oct. 22, 2020

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Magical Film Enterprise Co Ltd
No. 36, Lane 378, Sec.2, Youngsing Rd.,
Wuqi Dist., Taichung City 435, Taiwan

The following sample was submitted and identified by applicant as:

Sample Description	:	One sample of Spunbonded Nonwovens
Color	:	Blue
Fiber Content	:	PP
Fabric Weight	:	30g/m ²
End Use	:	Mask
Applicant	:	Magical Film Enterprise Co Ltd
Sample Receiving Date	:	Oct. 20, 2020
Test Performance Period	:	Oct. 20, 2020 to Oct. 22, 2020
Test Performed	:	Selected testing parts and items specified by client, in accordance with CNS 15290 Safety of Textile (General Requirements): 1) Free Formaldehyde 2) Organotin 3) Azo Colorants 4) Nonylphenol (NP) 5) Nonylphenol Ethoxylate (NPEO) 6) Perfluorooctanesulfonate (PFOS) Other item test performed as per applicant's request: 7) Migratable Fluorescent Substances
Test Results	:	For further details, please refer to the following page(s).

Remark: Test results have been taken from report number No: TXA1364 /2020 /LI, Date: Oct. 22, 2020

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

Note: ppm: parts per million
 ND: Not Detected
 Reporting limit: 16 ppm

2. Organotin

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

	Result (mg/kg)	CNS 15290 Recommend Max Limit (mg/kg)			
		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: ND = Not Detected
 Reporting limit: 0.2 mg/kg

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Test Results:

3.Azo Dyes

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

		Result	CNS 15290 Recommend Max. Limit (mg/kg)
	CAS-No.	Colorant extraction	
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
4-aminoazobenzene	60-09-3	ND	30
O-Anisidine	90-04-0	ND	30

Note: ND = Not Detected
Reporting limit = 5 mg/kg

Remark: 4-Aminodiphenyl (CAS number 92-67-1), 2-Naphthylamine (CAS number 91-59-8) and 4-Methoxy-m-phenylene-diamine (CAS number 615-05-4) can be indirectly generated from

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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 polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylene-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

The CNS 16113-1 L3280-1 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5 mg/kg).

Otherwise, the test method of CNS 16113-3 L3280-3 will be employed to verify the presence of 4-aminoazobenzene.

Test Results:

4. Nonylphenol (NP)

Test Method: With reference to CNS 15579 L3270. Analysis was conducted with LC/MS.

	Result (mg/kg)	CNS 15290 Recommend Max. Limit (mg/kg)
Nonylphenol	ND	1000

Note: ND: Not Detected
Reporting limit: 10 mg/kg

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Test Results:

5. Nonylphenol Ethoxylate (NPEO)

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

	Result (mg/kg)	CNS 15290 Recommend Max. Limit (mg/kg)
Nonylphenol Ethoxylate	4.13	1000

Note: ND: Not Detected
Reporting limit: 1 mg/kg

6. Perfluorooctanesulfonate (PFOS) Content

Test Method: According to CNS 15808 L3273. Analysis was conducted with LC/MS.

	Result (µg/m ²)	CNS 15290 Recommend Max. Limit (µg/m ²)
Perfluorooctanesulfonate (PFOS)	ND	1

Note: ND: Not Detected
Reporting limit: 0.5 µg/m²

Above test items were tested by relevant SGS laboratory.

7. Migratable Fluorescent Substances

Test Method: Ref. to CNS 11820 P3082

Negative

Note: Negative = Not contain migratable fluorescent substances

*** End of Report ***

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