

Test Report

No. NGBEC2002043003

Date: 27 May 2020

Page 1 of 6

ZHEJIANG PENGYUAN NEW MATERIAL CO., LTD
 NO.2-9#, ANXI ROAD, YUHANG DISTRICT, HANGZHOU, ZHEJIANG, CHINA

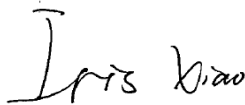
The following sample(s) was/were submitted and identified on behalf of the clients as : Laminated nonwoven fabric

SGS Job No. : NP20-001916 - NB
 Date of Sample Received : 21 May 2020
 Testing Period : 21 May 2020 - 27 May 2020
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Azo Dyes	PASS
Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – Organostannic compounds	PASS

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch



Iris Xiao
 Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	NGB20-020430.001	Blue nonwoven

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Azo Dyes

Test Method : Textile: According to EN ISO 14362-1:2017. Analysis was performed by GC-MS/ HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>Result</u>	
				Direct reduction*	Colorant extraction*
4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
2-Naphthylamine	91-59-8	mg/kg	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
4-Aminodiphenyl	92-67-1	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Unit	MDL	Result	
				<u>001</u>	
4-Chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
o-Aminoazotoluene	97-56-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
o-Toluidine	95-53-4	mg/kg	5	ND	ND
p-Cresidine	120-71-8	mg/kg	5	ND	ND
Conclusion				PASS	PASS

Notes :

- Recommended Max. Limit: 30 mg/kg
- Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

+ Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

+Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 clause 10.1 and relevant clauses.

4-Aminodiphenyl (CAS number 92-67-1), 2-Naphylamine (CAS number 91-59-8) and 4-Methoxy-m-phenylene-diamine (CAS number 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 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-toluylen-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 EN ISO 14362-1:2017 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 EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – Organostannic compounds

Test Method : With reference to ISO 17353: 2004 , analysis was performed by GC-MS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Σ of Tri-substituted organotin compounds calculated as tin [^]	0.1	%	0.01	ND
Dibutyl tin (DBT) by weight of Tin	0.1	%	0.01	ND
Diocetyl tin (DOT) by weight of Tin	0.1	%	0.01	ND
Conclusion				PASS

Notes :

- (1) Tri-substituted organostannic compounds such as TBT, TPhT, TCyT, TOT, TPT, TMT compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0.1% by weight of Tin.
- (2) DBT compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0.1% by weight of Tin.
- (3) DOT compounds shall not be used after 1 January 2012 in the specified articles for supply to, or use by, the general public, where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0.1% by weight of Tin.

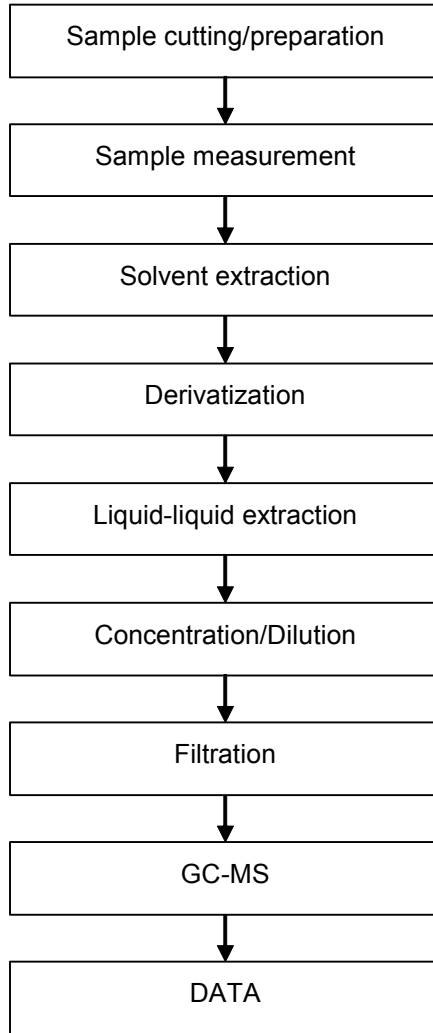


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ATTACHMENTS

Organotin Testing Flow Chart



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