

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Name : NEOPRENE LAMINATED WITH NYLON
SGS Ref No. : 10746545
Main Substance : NEOPRENE
Supplier :

Sample Receiving Date : Dec. 11, 2007
Testing Period : Dec. 11 – 14, 2007

Test Requested : (1) In accordance with the RoHS Directive 2002/95/EC, and its amendment directives, To determine the Cadmium Content in the submitted sample.
(2) *As specified by client, to detection and determination of certain listed aromatic amines derived from Azo Colorants

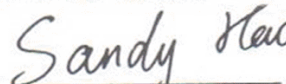
Test Method : (1) With reference to IEC 62321 Ed.1 111/54/CDV for Cadmium content.
Analysis was performed by AAS.
(2) *As per EN 14362-1: 2003 - Direct test on coloured textiles – Detection of the use of certain azo colorants are accessible to reducing agents without extraction with the use of Gas Chromatographic Mass Spectrometry (GC-MS).

Test Results : Please refer to next pages

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Ella Zhang
Section Manager

Signed for and on behalf of
SGS-CSTC Chemical Laboratory


Sandy Hao
Lab Manager

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Test results by chemical method (Unit: mg/kg)

(1) Cadmium Content

Test Item(s):	Method (refer to)	1**	MDL	RoHS Limit
Cadmium(Cd)	(1)	ND	2	100

(2) *To detection and determination of certain listed aromatic amines derived from Azo Colorants.

No.	Forbidden Amines Substances	CAS-No.	Result 1**
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-chlor- <i>o</i> -toluidine	95-69-2	ND
4.	2-naphthylamine	91-59-8	ND
5.	<i>o</i> -aminoazotoluene/ 4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	ND
6.	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	ND
7.	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	ND
8.	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	ND
9.	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	ND
10.	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	ND
11.	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	ND
12.	3,3'-dimethylbenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	ND
13.	3,3'-dimethyl-4,4'-diaminodipenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND
14.	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	ND
15.	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4' methylene-dianiline	101-14-4	ND
16.	4,4'-oxydianiline	101-80-4	ND
17.	4,4'-thiodianiline	139-65-1	ND
18.	<i>o</i> -toluidine/2-aminotoluene	95-53-4	ND
19.	2,4-toluylendiamine/ 4-methyl- <i>m</i> -phenylenediamine	95-80-7	ND
20.	2,4,5-trimethylaniline	137-17-7	ND
21.	4-aminoazobenzene ♦	60-09-3	ND
22.	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	ND
23.	2,4-Xylidine	95-68-1	ND
24.	2,6-Xylidine	87-62-7	ND
Overall Rating			PASS

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Relevant Requirement (2002/61/EC) :

No relevant amine exceeding 30 ppm (mg/kg)

Note : ND = Not Detectable

Detection Limit = 5 ppm (mg/kg)

◆: If the EN 14362-1 method enabled further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 would be employed to verify the presence of 4-aminoazobenzene

If the amines are detected by GC-MS method, then confirmation must be made using TLC method.

EN 14362-1 for European directive 2002/61/EC is corresponding to LFGB § 64 BVL B 82.02.2 of the German Act for Food, Commodity and Feed.

Forbidden Arylamines for Azo Dye Regulations

No. 1-22 – Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002

No. 23-24 – Client requirement

Comment : Based on the test result, azo colorants which can release one or more of the listed amines by cleavage of their azo group/s were not detected in sample (s) or the commodity submitted.

Test Part Description:

1. Black solid sheet (mix all)

Note:

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (5) *These tests were subcontracted to SGS-SHSL TEXTILE LAB (Date of testing: 2007/1/12~12/14).
- (6) **The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing.
The above result(s) was/were only given as the informality value

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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