



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.T52310310749TC

Date: SEP 21, 2023

Page 1 of 11

HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD HAPE INTERNATIONAL (NINGBO) LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA PC:315800

The following samples were submitted and identified by/on behalf of the client as:

E0639 NATURE BAND RHYTHM KIT

Item No. : E0639
Country of Origin : CHINA
Country of Destination : GLOBAL
Client Reference Information : E0639A,E0639K
Requested Age Grading : 2-6Y

Sample Receiving Date : AUG 11, 2023
Last Submission Sample Date : SEP 18, 2023
Testing Period : AUG 11, 2023 TO SEP 21, 2023



SGS-CSTC (Shenzhen) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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Page 2 of 11

Test Requested	Conclusion
1. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments including (EU) 2020/2096 – AZO Colourants	PASS
2. European Directive (EU) 2021/903 amending appendix C to Annex II of Directive 2009/48/EC – Aniline Content	PASS*
3. Client’s Requirement – AZO Colourants	PASS*

Remark: Test item (s) with "*" is (are) not accredited by CNAS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

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



Qu Ping Kiky
Dept. Manager
CNAS Approved Signatory



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Results:

European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment including (EU) 2020/2096 – AZO Colourants

Method: With reference to EN ISO 14362-1:2017 / EN ISO 14362-3:2017 / § 64 LFGB, BVL B 82.02-2:2013 / § 64 LFGB, BVL B 82.02-15:2013

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)	
		1				
		Direct reduction	Colorant extraction			
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30



No.	Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
			2			
			Direct reduction	Colorant extraction		
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30



No.	Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
			3			
			Direct reduction	Colorant extraction		
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30

Specimen Description:

1. Blue felt (Wing) (Submitted on AUG 29, 2023)
2. Light blue felt (Wing) (Submitted on AUG 29, 2023)
3. Black woven cord (Antenna) (Submitted on SEP 18, 2023)



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Shenzhen Branch Testing Center Hardlines

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- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - 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.

- EN ISO 14362-1:2017 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 "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.
- 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.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- -- = Test method is not applicable due to identified specimen nature with respect to method(s).
- @ = The amine was detected according to EN ISO 14362-1:2017 with the reducing agent. A similar result was obtained from the procedure carried out without the reducing agent. According to EN ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from a source other than azo colorants.
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- ^ = The amine was detected according to EN ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to EN ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants.
- Δ = Pass/Fail cannot be given due to the presence of substance(s) is between 5–30mg/kg. Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.
- * Exceeds Permissible Limit



European Directive (EU) 2021/903 amending appendix C to Annex II of Directive 2009/48/EC – Aniline Content

Method: With reference to EN ISO 14362-1:2017 / EN ISO 14362-3:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		1			
		Direct reduction	Colorant extraction		
Aniline	62-53-3	ND	ND	5	30

Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		2			
		Direct reduction	Colorant extraction		
Aniline	62-53-3	ND	ND	5	30

Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		3			
		Direct reduction	Colorant extraction		
Aniline	62-53-3	ND	ND	5	30

Specimen Description:

1. Blue felt (Wing) (Submitted on AUG 29, 2023)
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3. Black woven cord (Antenna) (Submitted on SEP 18, 2023)



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- * Exceeds Permissible Limit
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight



AZO Colourants

Method: With reference to EN ISO 14362-1:2017 / EN ISO 14362-3:2017 / § 64 LFGB, BVL B 82.02-2:2013 / § 64 LFGB, BVL B 82.02-15:2013

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
		1			
		Direct reduction	Colorant extraction		
2,4-Xylidine	95-68-1	ND	ND	5	30
2,6-Xylidine	87-62-7	ND	ND	5	30
Aniline	62-53-3	ND	ND	5	30
1, 4-phenylenediamine	106-50-3	ND	ND	5	30

No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
		2			
		Direct reduction	Colorant extraction		
2,4-Xylidine	95-68-1	ND	ND	5	30
2,6-Xylidine	87-62-7	ND	ND	5	30
Aniline	62-53-3	ND	ND	5	30
1, 4-phenylenediamine	106-50-3	ND	ND	5	30

No. Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
		3			
		Direct reduction	Colorant extraction		
2,4-Xylidine	95-68-1	ND	ND	5	30
2,6-Xylidine	87-62-7	ND	ND	5	30
Aniline	62-53-3	ND	ND	5	30
1, 4-phenylenediamine	106-50-3	ND	ND	5	30

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- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- ^ = The amine was detected according to EN ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to EN ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants.
- * Exceeds Client's Limit

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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012):- When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$



Sample Picture (As received)

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

