

Test Report

報告編號(No.): HTH23C00010 報告日期(DATE): 2023/12/11

頁數(PAGE): 1 of 9

宜東國際股份有限公司 (YI DONG INTERNATIONAL CO., LTD.)

台中市北屯區平田里文心路四段955號17樓(17F., NO. 955, SEC. 4, WENXIN RD., BEITUN DIST., TAICHUNG CITY)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 宜東國際股份有限公司 (YI DONG international Co., Ltd.)

樣品名稱(Sample Description) : 艾爾沃防霾紗窗(艾爾沃靜電防霾紗窗)

樣品型號(Style/Item No.) : AW-V-001

生產或供應廠商 : 艾爾沃防霾紗窗

(Manufacturer/Vendor)

原產國(Country of Origin) : 台灣

收件日(Sample Receiving Date) : 2023/12/04

測試期間(Testing Period) : 2023/12/04 to 2023/12/11

測試需求 (Test Requested)

依據客戶要求,參考CNS 15290: 2019 進行測試,測試項目請參閱結果表格。 (As specified by client, the sample(s) was/were tested with reference to CNS 15290: 2019. Please refer to the result table(s) for details.)

測試結果 (Test Results) : 請見下一頁。(Please refer to next page(s).)

Singh Hsiao / Asst. Manage Signed for and on behalf SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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新北市五股區新北產業園區五權七路 25 號 t+886 (02)2299 3939 f+886 (02)2299 3237 No. 25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei Citv, Taiwan



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台中市北屯區平田里文心路四段955號17樓 (17F., NO. 955, SEC. 4, WENXIN RD., BEITUN DIST., TAICHUNG CITY)

測試部位敘述(Test Part Description)

No.1 : 黑色織品 (Black fabric)

測試結果(Test Results)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1	參考限值 (Ref. Limit)
游離甲醛 / Free-Formaldehyde (CAS No.50-00-0)	參考 CNS 15580-1(民國101年), 以紫 外光-可見光分光光譜儀(UV-Vis)分	mg/kg	16	n.d.	(■1)
游離甲醛 / Free-Formaldehyde(CAS No.50-00-0)	析。 / With reference to CNS 15580- 1:2012. Analysis was performed by UV-Vis.	mg/kg	16	n.d.	(■1)
平均游離甲醛 / Average Free-Formaldehyde (CAS No.50-00-0)	-	mg/kg	-	n.d.	-
偶氮色料-9.1色料萃取 / AZO (9.1 Colorant extr	action)				
2,4,5-三甲基苯胺(CAS No.137-17-7) / 2,4,5- Trimethylaniline(CAS No.137-17-7)	参考CNS 16113-1 (民國108年)·以氣相層析質譜儀/高效能液相層析三極體陣列偵測器(GC-MS/HPLC-DAD)分析。 / With reference to CNS 16113-1: 2019. Analysis was performed by GC-MS/HPLC-DAD.	mg/kg	3	n.d.	30
二甲氧基聯苯胺(CAS No.119-90-4) / 3,3- Dimethoxybenzidine(CAS No.119-90-4)		mg/kg	3	n.d.	30
2-萘胺(CAS No.91-59-8)/ 2-Naphthylamine(CAS No.91-59-8)(◈3)		mg/kg	3	n.d.	30
4,4'-二胺基二苯醚(CAS No.101-80-4) / 4,4'- Oxydianiline(CAS No.101-80-4)		mg/kg	3	n.d.	30
鄰-胺基偶氮甲苯(CAS No.97-56-3)/ o- Aminoazotoluene(CAS No.97-56-3)(◈1)		mg/kg	3	n.d.	30
2-甲氧基-5-甲基苯胺(CAS No.120-71-8) / 6- Methoxy-m-toluidine(CAS No.120-71-8)		mg/kg	3	n.d.	30
5-硝基-鄰-甲苯胺(CAS No.99-55-8)/ 5-Nitro- o-toluidine(CAS No.99-55-8)(◈1)		mg/kg	3	n.d.	30
鄰-甲氧基苯胺(CAS No.90-04-0) / o-Anisidine (CAS No.90-04-0)		mg/kg	3	n.d.	30

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台中市北屯區平田里文心路四段955號17樓 (17F., NO. 955, SEC. 4, WENXIN RD., BEITUN DIST., TAICHUNG CITY)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1	參考限值 (Ref. Limit)
4,4'-二胺基二苯甲烷(CAS No.101-77-9)/ 4,4'- Diaminodiphenylmethane(CAS No.101-77-9) (◈4)		mg/kg	3	n.d.	30
4,4'-亞甲雙(2-氯苯胺)(CAS No.101-14-4) / 4,4'-Methylene-bis-(2-chloro-Aniline)(CAS No.101-14-4)		mg/kg	3	n.d.	30
4,4'-硫二苯胺(CAS No.139-65-1) / 4,4'- Thiodianiline(CAS No.139-65-1)		mg/kg	3	n.d.	30
對-胺基聯苯(CAS No.92-67-1)/ 4- Aminobiphenyl(CAS No.92-67-1)(◈3)		mg/kg	3	n.d.	30
4-胺基偶氮苯 (4-AAB)(CAS No.60-09-3)/ 4- Aminoazobenzene(4-AAB)(CAS No.60-09-3) (◈2)	參考CNS 16113-1 (民國108年) · 以氣相層析質譜儀/高效能液相層析二極體	mg/kg	3	n.d.	30
4-氯苯胺(CAS No.106-47-8) / 4-Chloroaniline (CAS No.106-47-8)		mg/kg	3	n.d.	30
聯苯胺(CAS No.92-87-5) / Benzidine(CAS No.92-87-5)		mg/kg	3	n.d.	30
鄰-二甲基聯苯胺(CAS No.119-93-7) / 3,3'- Dimethylbenzidine(CAS No.119-93-7)		mg/kg	3	n.d.	30
對-氯-鄰-甲苯胺(CAS No.95-69-2) / 4-Chloro- o-toluidine(CAS No.95-69-2)		mg/kg	3	n.d.	30
2,4-二胺基苯甲醚(CAS No.615-05-4)/ 2,4- Diaminoanisole(CAS No.615-05-4)(◈3)		mg/kg	3	n.d.	30
2,4-甲苯二胺 (TDA) (CAS No.95-80-7) / 2,4- Toluylendiamine (TDA) (CAS No.95-80-7) (1) (\$4)		mg/kg	3	n.d.	30
二氯聯苯胺(CAS No.91-94-1) / 3,3'- Dichlorobenzidine(CAS No.91-94-1)		mg/kg	3	n.d.	30

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台中市北屯區平田里文心路四段955號17樓 (17F., NO. 955, SEC. 4, WENXIN RD., BEITUN DIST., TAICHUNG CITY)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1	參考限值 (Ref. Limit)
3,3'-二甲基-4,4'-二胺基二苯甲烷(CAS No.838-88-0) / 4,4'-Methylenedi-o-toluidine(CAS No.838-88-0)	參考CNS 16113-1 (民國108年) · 以氣相層析質譜儀/高效能液相層析二極體陣列偵測器(GC-MS/HPLC-DAD)分	mg/kg	3	n.d.	30
鄰-甲苯胺(CAS No.95-53-4)/ o-Toluidine(CAS No.95-53-4)(◈1)	析。 / With reference to CNS 16113- 1: 2019. Analysis was performed by GC-MS/HPLC-DAD.	mg/kg	3	n.d.	30
偶氮色料-9.2直接還原 / AZO (9.2 Direct Reduct	tion)				
對-胺基聯苯(CAS No.92-67-1)/ 4- Aminobiphenyl(CAS No.92-67-1)(◈3)		mg/kg	3	n.d.	30
鄰-甲氧基苯胺(CAS No.90-04-0) / o-Anisidine (CAS No.90-04-0)		mg/kg	3	n.d.	30
5-硝基-鄰-甲苯胺(CAS No.99-55-8)/ 5-Nitro- o-toluidine(CAS No.99-55-8)(◈1)		mg/kg	3	n.d.	30
對-氯-鄰-甲苯胺(CAS No.95-69-2) / 4-Chloro- o-toluidine(CAS No.95-69-2)		mg/kg	3	n.d.	30
二甲氧基聯苯胺(CAS No.119-90-4) / 3,3- Dimethoxybenzidine(CAS No.119-90-4)	参考CNS 16113-1 (民國108年) · 以氣	mg/kg	3	n.d.	30
2-萘胺(CAS No.91-59-8)/ 2-Naphthylamine(CAS No.91-59-8)(◈3)	陣列偵測器(GC-MS/HPLC-DAD)分析。 / With reference to CNS 16113-1: 2019. Analysis was performed by GC-MS/HPLC-DAD.	mg/kg	3	n.d.	30
2-甲氧基-5-甲基苯胺(CAS No.120-71-8) / 6- Methoxy-m-toluidine(CAS No.120-71-8)		mg/kg	3	n.d.	30
4,4'-亞甲雙(2-氯苯胺)(CAS No.101-14-4) / 4,4'-Methylene-bis-(2-chloro-Aniline)(CAS No.101-14-4)		mg/kg	3	n.d.	30
鄰-三甲基聯苯胺(CAS No.119-93-7) / 3,3'- Dimethylbenzidine(CAS No.119-93-7)		mg/kg	3	n.d.	30
4,4'-硫三苯胺(CAS No.139-65-1) / 4,4'- Thiodianiline(CAS No.139-65-1)		mg/kg	3	n.d.	30
2,4-二胺基苯甲醚(CAS No.615-05-4)/ 2,4- Diaminoanisole(CAS No.615-05-4)(◈3)		mg/kg	3	n.d.	30

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台中市北屯區平田里文心路四段955號17樓 (17F., NO. 955, SEC. 4, WENXIN RD., BEITUN DIST., TAICHUNG CITY)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	參考限值 (Ref.
2,4,5-三甲基苯胺(CAS No.137-17-7) / 2,4,5-	, ,	mg/kg	3	No.1 n.d.	Limit) 30
Trimethylaniline (CAS No.137-17-7) 聯苯胺 (CAS No.92-87-5) / Benzidine (CAS No.92-87-5)		mg/kg	3	n.d.	30
4-胺基偶氮苯 (4-AAB)(CAS No.60-09-3)/ 4- Aminoazobenzene(4-AAB)(CAS No.60-09-3) (◈2)		mg/kg	3	n.d.	30
鄰-胺基偶氮甲苯(CAS No.97-56-3)/ o- Aminoazotoluene(CAS No.97-56-3)(◈1)		mg/kg	3	n.d.	30
4-氯苯胺 (CAS No.106-47-8) / 4-Chloroaniline (CAS No.106-47-8)	企業ONG 40449 4 (尺周400 ケ) N/与	mg/kg	3	n.d.	30
4,4' 胺基 苯甲烷(CAS No.101-77-9)/ 4,4'- Diaminodiphenylmethane(CAS No.101-77-9) (◈4)	參考CNS 16113-1 (民國108年) · 以氣相層析質譜儀/高效能液相層析二極體陣列偵測器(GC-MS/HPLC-DAD)分析。 / With reference to CNS 16113-1: 2019. Analysis was performed by GC-MS/HPLC-DAD.	mg/kg	3	n.d.	30
鄰-甲苯胺(CAS No.95-53-4)/ o-Toluidine(CAS No.95-53-4)(◈1)		mg/kg	3	n.d.	30
4,4'-二胺基二苯醚(CAS No.101-80-4) / 4,4'- Oxydianiline(CAS No.101-80-4)		mg/kg	3	n.d.	30
2,4-甲苯二胺 (TDA)(CAS No.95-80-7)/ 2,4- Toluylendiamine (TDA)(CAS No.95-80-7)(令 1) (令4)		mg/kg	3	n.d.	30
3,3'-三甲基-4,4'-三胺基三苯甲烷(CAS No.838- 88-0) / 4,4'-Methylenedi-o-toluidine(CAS No.838-88-0)		mg/kg	3	n.d.	30
二氯聯苯胺(CAS No.91-94-1) / 3,3'- Dichlorobenzidine(CAS No.91-94-1)		mg/kg	3	n.d.	30



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台中市北屯區平田里文心路四段955號17樓 (17F., NO. 955, SEC. 4, WENXIN RD., BEITUN DIST., TAICHUNG CITY)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result) No.1	參考限值 (Ref. Limit)
三苯基錫 (TPT) / Triphenyl tin (TPT)	參考CNS 15853-1 (民國104年) · 以氣 相層析質譜儀(GC-MS)分析。 / With	mg/kg	0.02	n.d.	(■2)
三丁基錫 (TBT) / Tributyl tin (TBT)	reference to CNS 15853-1 (2015). Analysis was performed by GC-MS.	mg/kg	0.02	n.d.	(■2)
王基苯酚聚氧乙烯醚 (NPEO) / Nonyl phenol ethoxylates (NPEO)	參考CNS 15579:2023, 以液相層析質 譜儀(LC/MS)分析。 / With reference	mg/kg	1	n.d.	1000 (total)
壬酚 (NP) / Nonylphenol (NP)	l ' '	mg/kg	1	n.d.	1000 (total)
全氟辛烷磺酸 / Perfluorooctane sulfonic acid (CAS No.1763-23-1)	參考CNS 15808 (2017) · 以液相層析 串聯式質譜儀(LC/MS/MS)分析。/ With reference to CNS 15808 (2017). Analysis was performed by LC/MS/MS.	μg/m²	0.5	n.d.	1
溶出鎘 (Cd) / Soluble Cadmium (Cd) (CAS No.7440-43-9)	參考CNS 4797-2 (民國111年),以感 應耦合電漿發射光譜儀(ICP-OES)分 析。 / With reference to CNS 4797-2	mg/kg	5	n.d.	不得使用 /Prohibited
溶出鉛 (Pb) / Soluble Lead (Pb) (CAS No.7439-92-1)	(2022). Analysis was performed by ICP-OES.	mg/kg	5	n.d.	90



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Remark:

- (◆1) 鄰-胺基偶氮甲苯與5-硝基-鄰-甲苯胺會更進一步還原裂解為鄰-甲苯胺與2,4-二胺基甲苯 (TDA)。(o-Aminoazotoluene and 5-Nitro-o-toluidine will be further reduced. Resolved into o-Toluidine and 2,4-Toluylendiamine (TDA).)
- (◆2) 4-胺基偶氮苯的偶氮色料,經由本試驗法裂解產生苯胺與對苯二胺,由於偵測極限的關係,可能只有苯胺會被測到,如果苯胺測得5 mg/kg以上,必須進一步依CNS 16113-3執行測試。(CNS 16113-1 will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-aminoazobenzene is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, CNS 16113-3 will be employed to verify the presence of 4-aminoazobenzene.)
- (◆3) 當對-胺基聯苯、2-萘胺及2,4-二胺基苯甲醚被檢測出時,這些被禁用的偶氮染料需有額外資訊才能確切證實。 (4-Aminodiphenyl, 2-Naphthylamine and 2,4-Diaminoanisole 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.)
- (◆4) 假如有使用聚胺酯材質・例如:聚胺酯泡棉或塗層時・MDA(CAS No.:101-77-9)及TDA(CAS No.:95-80-7), 則無法被排除這些胺類是從聚胺酯中釋出,而不是來自被禁用的偶氮染料。同樣的,色料印刷材質,MDA來源不是 從禁用的偶氮染料中釋出而是來自化學固色劑。(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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備註(Note):

- 1. mg/kg = ppm; 0.1% = 1000 ppm
- 2. RL = Reporting Limit (報告極限值)
- 3. n.d. = Not Detected (未檢出) = Less than (小於) RL
- 4. "-" = Not Regulated (無規格值)
- 5. (■1) 參考CNS 14940: 2018表1·紡織製品中游離甲醛限量值如下: (With reference to CNS 14940: 2018 Table 1, the limit value of free formaldehyde in textile products is as follows:)

類別(Category)	游離甲醛(Free formaldehyde)
嬰幼兒用(For Babies and infants)	20以下 (Below 20)
與皮膚直接接觸(Direct contact with skin)	75以下 (Below 75)
與皮膚非直接接觸(Indirect contact with skin)	300以下 (Below 300)
室內裝飾用(Interior decoration used)	300以下 (Below 300)

6. (■2) 參考CNS 15290: 2019表1·紡織品中有機錫化合物的限量要求: (With reference to CNS 15290: 2019 Table 1, the limitation requirements of organotin compounds in textiles is as follows:)

類別(Category)	三丁基錫	三苯基錫 (TPT)
嬰幼兒用(For infants and young children)	0.5	0.5
與皮膚直接接觸(For those of direct contact with skin)	1.0	1.0
與皮膚非直接接觸(For those of non-direct contact with skin)	1.0	1.0
室內裝飾用(For domestic decorations)	1.0	1.0

7. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)



Test Report

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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位。 * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **