

測試報告 Test Report

報告編號(No.): HKC25100090

報告日期(DATE): 2025/02/08

頁數(PAGE): 1 of 10

廣源造紙股份有限公司 (KUAN YUAN PAPER MFG.CO., LTD)

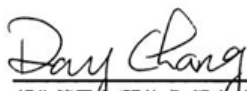
苗栗縣竹南鎮山佳里照南18號 (NO. 18, ZHAONAN, SHANJIA VIL., ZHUNAN TOWNSHIP, MIAOLI COUNTY 35048, TAIWAN (R.O.C.))

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) : 廣源造紙股份有限公司 (KUAN YUAN PAPER MFG.CO., LTD)
樣品名稱(Sample Description) : COATED DUPLEX BOARD WITH GREY BACK (塗佈灰底白紙板)
樣品型號(Style/Item No.) : 250g/270g/300g/350g/400g/450g/500g/550g

收件日(Sample Receiving Date) : 2025/01/22
測試期間(Testing Period) : 2025/01/22 to 2025/02/08

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



報告簽署人/張伯睿 博士/部經理
Ray Chang, Ph.D. / Department Manager
Signed for and on behalf of
SGS Taiwan Ltd
化學實驗室-高雄/
Chemical Laboratory-Kaohsiung



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苗栗縣竹南鎮山佳里照南18號 (NO. 18, ZHAONAN, SHANJIA VIL., ZHUNAN TOWNSHIP, MIAOLI COUNTY 35048, TAIWAN (R.O.C.))

測試部位敘述(Test Part Description)

No.1 : 白色/灰色紙 (WHITE/GRAY PAPER)

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
鉛 (Pb) / Lead (Pb) (CAS No.7439-92-1)	參考US EPA 3052 (1996) · 以感應耦合電漿原子發射光譜儀檢測。 / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES.	mg/kg	2	4.19
鎘 (Cd) / Cadmium (Cd) (CAS No.7440-43-9)		mg/kg	2	n.d.
汞 (Hg) / Mercury (Hg) (CAS No.7439-97-6)		mg/kg	2	n.d.
六價鉻 Cr(VI) / Hexavalent Chromium Cr(VI) (CAS No.18540-29-9)	參考US EPA 3060A (1996) · 以UV-VIS / US EPA 7196A (1992) 分析。 / With reference to US EPA 3060A (1996). Analysis was performed by UV-VIS Spectrometry / US EPA 7196A (1992).	mg/kg	2	n.d.
94/62/EC (鎘+鉛+汞+六價鉻) / 94/62/EC (Cd+Pb+Hg+Cr6)	鎘+鉛+汞+六價鉻總和 / Total Cadmium + Lead + Mercury + Hexavalent Chromium Cr(VI) (94/62/EC)	mg/kg	-	4.19

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
多溴聯苯(PBBs) / Polybrominated biphenyl (PBBs)				
一溴聯苯 / Monobromobiphenyl	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。 / With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.
二溴聯苯 / Dibromobiphenyl		mg/kg	5	n.d.
三溴聯苯 / Tribromobiphenyl		mg/kg	5	n.d.
四溴聯苯 / Tetrabromobiphenyl		mg/kg	5	n.d.
五溴聯苯 / Pentabromobiphenyl		mg/kg	5	n.d.
六溴聯苯 / Hexabromobiphenyl		mg/kg	5	n.d.
七溴聯苯 / Heptabromobiphenyl		mg/kg	5	n.d.
八溴聯苯 / Octabromobiphenyl		mg/kg	5	n.d.
九溴聯苯 / Nonabromobiphenyl		mg/kg	5	n.d.
十溴聯苯 / Decabromobiphenyl		mg/kg	5	n.d.
多溴聯苯總和 / Sum of PBBs		mg/kg	-	n.d.
多溴聯苯醚 (PBDEs) / Polybrominated biphenyl ethers (PBDEs)				
一溴聯苯醚 / Monobromodiphenyl ether	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。 / With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether		mg/kg	5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether		mg/kg	5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether		mg/kg	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether		mg/kg	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether		mg/kg	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether		mg/kg	5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether		mg/kg	5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether		mg/kg	5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether		mg/kg	5	n.d.
多溴聯苯醚總和 / Sum of PBDEs		mg/kg	-	n.d.

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苗栗縣竹南鎮山佳里照南18號 (NO. 18, ZHAONAN, SHANJIA VIL., ZHUNAN TOWNSHIP, MIAOLI COUNTY 35048, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
鄰苯二甲酸二異丁酯 (DIBP) / Di-isobutyl phthalate (DIBP) (CAS No.84-69-5)	參考CPSC-CH-C1001-09.4 · 以氣相層析/質譜儀(GC/MS)檢測析。 / With reference to CPSC-CH-C1001-09.4, the analysis was performed by GC/MS.	mg/kg	50	n.d.
鄰苯二甲酸二(2-乙己基)酯 (DEHP) / Bis(2-ethylhexyl) phthalate (DEHP) (CAS No.117-81-7)		mg/kg	50	n.d.
鄰苯二甲酸二丁酯 (DBP) / Dibutyl phthalate (DBP) (CAS No.84-74-2)		mg/kg	50	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) / Butyl benzyl phthalate (BBP) (CAS No.85-68-7)		mg/kg	50	n.d.
鹵素-氟(F) / Halogen-Fluorine(F) (CAS No.14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀分析。 / With reference to BS EN 14582: 2016. Analysis was performed by IC.	mg/kg	50	n.d.
鹵素-溴(Br) / Halogen-Bromine(Br) (CAS No.10097-32-2)		mg/kg	50	n.d.
鹵素-氯(Cl) / Halogen-Chlorine(Cl) (CAS No.22537-15-1)		mg/kg	50	136
鹵素-碘(I) / Halogen-Iodine(I) (CAS No.14362-44-8)		mg/kg	50	n.d.
砷 (As) / Arsenic (As) (CAS No.7440-38-2)	參考US EPA 3052 (1996) · 以感應耦合電漿原子發射光譜儀檢測。 / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES.	mg/kg	2	n.d.
鉻 (Cr) / Chromium (Cr) (CAS No.7440-47-3)		mg/kg	2	2.41
鋅 (Zn) / Zinc (Zn) (CAS No.7440-66-6)		mg/kg	2	35.7
銅 (Cu) / Copper (Cu) (CAS No.7440-50-8)		mg/kg	2	23.6

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
富馬酸二甲酯 (DMFu) / Dimethyl fumarate (DMFu) (CAS No.624-49-7)	參考ISO/TS 16186:2021方法, 以氣相層析質譜儀檢測。 / With reference to ISO/TS 16186:2021. Analysis was performed by GC-MS.	mg/kg	0.01	n.d.
甲醛 / Formaldehyde (CAS No.50-00-0)	參考ISO 17226-1: 2021 · 以高效液相層析儀/二極體陣列偵測器分析。 / With reference to ISO 17226-1: 2021. Analysis was performed by HPLC/DAD.	mg/kg	5	n.d.
五氯酚及其鹽類 / Pentachlorophenol and its salts	參考KOH · 以氣相層析儀/質譜儀分析。 / With reference to KOH, analysis was performed by GC/MS.	mg/kg	3	n.d.
聚氯乙烯 / PVC(Δ)	以紅外光譜分析及焰色法檢測。 / Analysis was performed by FTIR and FLAME Test.	-	-	Negative
多環芳香烴 / Polycyclic Aromatic Hydrocarbons (PAHs)				
Benzo[a]pyrene (CAS No.50-32-8)	參考AfPS GS 2019:01 PAK · 以氣相層析儀/質譜儀分析。 / With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC/MS.	mg/kg	0.2	n.d.
Benzo[e]pyrene (CAS No.192-97-2)		mg/kg	0.2	n.d.
Benzo[a]anthracene (CAS No.56-55-3)		mg/kg	0.2	n.d.
Benzo[b]fluoranthene (CAS No.205-99-2)		mg/kg	0.2	n.d.
Benzo[j]fluoranthene (CAS No.205-82-3)		mg/kg	0.2	n.d.
Benzo[k]fluoranthene (CAS No.207-08-9)		mg/kg	0.2	n.d.
Chrysene (CAS No.218-01-9)		mg/kg	0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.53-70-3)		mg/kg	0.2	n.d.
Benzo[g,h,i]perylene (CAS No.191-24-2)		mg/kg	0.2	n.d.
Indeno[1,2,3-c,d]pyrene (CAS No.193-39-5)		mg/kg	0.2	n.d.

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
Anthracene (CAS No.120-12-7)	參考AfPS GS 2019:01 PAK · 以氣相層析儀/質譜儀分析。 / With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC/MS.	mg/kg	0.2	n.d.
Fluoranthene (CAS No.206-44-0)		mg/kg	0.2	n.d.
Phenanthrene (CAS No.85-01-8)		mg/kg	0.2	n.d.
Pyrene (CAS No.129-00-0)		mg/kg	0.2	n.d.
Naphthalene (CAS No.91-20-3)		mg/kg	0.2	n.d.
Sum of 15 PAHs		mg/kg	-	n.d.
Acenaphthene (CAS No.83-32-9)	參考AfPS GS 2019:01 PAK · 以氣相層析儀/質譜儀分析。 / With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC/MS.	mg/kg	0.2	n.d.
Fluorene (CAS No.86-73-7)		mg/kg	0.2	n.d.
Acenaphthylene (CAS No.208-96-8)		mg/kg	0.2	n.d.
偶氮染料 (直接還原) / Azo dyes (Direct reduction)				
對-胺基聯苯 (CAS No.92-67-1) / 4-Aminobiphenyl (CAS No.92-67-1) (◆3)	參考EN ISO 14362-1: 2017 · 以氣相層析質譜儀及高效液相層析二極體陣列偵測器分析。 / With reference to EN ISO 14362-1: 2017. Analysis was performed by GC-MS and HPLC-DAD.	mg/kg	3	n.d.
聯苯胺 (CAS No.92-87-5) / Benzidine (CAS No.92-87-5)		mg/kg	3	n.d.
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.
2-萘胺 (CAS No.91-59-8) / 2-Naphthylamine (CAS No.91-59-8) (◆3)		mg/kg	3	n.d.
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.
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.
4-氯苯胺 (CAS No.106-47-8) / 4-Chloroaniline (CAS No.106-47-8)		mg/kg	3	n.d.

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測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
2,4-二胺基苯甲醚 (CAS No.615-05-4) / 2,4-Diaminoanisole (CAS No.615-05-4) (◆3)	參考EN ISO 14362-1: 2017 · 以氣相層析質譜儀及高效液相層析二極體陣列偵測器分析。 / With reference to EN ISO 14362-1: 2017. Analysis was performed by GC-MS and HPLC-DAD.	mg/kg	3	n.d.
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.
二氯聯苯胺 (CAS No.91-94-1) / 3,3'-Dichlorobenzidine (CAS No.91-94-1)		mg/kg	3	n.d.
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.
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.
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)		mg/kg	3	n.d.
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.
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.
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.
4,4'-硫二苯胺 (CAS No.139-65-1) / 4,4'-Thiodianiline (CAS No.139-65-1)		mg/kg	3	n.d.
鄰-甲苯胺 (CAS No.95-53-4) / o-Toluidine (CAS No.95-53-4) (◆1)		mg/kg	3	n.d.
2,4-甲苯二胺 (TDA) (CAS No.95-80-7) / 2,4-Toluyldiamine (TDA) (CAS No.95-80-7) (◆1) (◆4)		mg/kg	3	n.d.

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苗栗縣竹南鎮山佳里照南18號 (NO. 18, ZHAONAN, SHANJIA VIL., ZHUNAN TOWNSHIP, MIAOLI COUNTY 35048, TAIWAN (R.O.C.))

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)
				No.1
2,4,5-三甲基苯胺 (CAS No.137-17-7) / 2,4,5-Trimethylaniline (CAS No.137-17-7)	參考EN ISO 14362-1: 2017 · 以氣相層析質譜儀及高效液相層析二極體陣列偵測器分析。 / With reference to EN ISO 14362-1: 2017. Analysis was performed by GC-MS and HPLC-DAD.	mg/kg	3	n.d.
鄰-甲氧基苯胺 (CAS No.90-04-0) / o-Anisidine (CAS No.90-04-0)		mg/kg	3	n.d.
2,4-二甲基苯胺 (CAS No.95-68-1) / 2,4-xylidine (CAS No.95-68-1)		mg/kg	3	n.d.
2,6-二甲基苯胺 (CAS No.87-62-7) / 2,6-xylidine (CAS No.87-62-7)		mg/kg	3	n.d.
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EN ISO 14362-3: 2017 · 以氣相層析質譜儀及高效液相層析二極體陣列偵測器分析。 / With reference to EN ISO 14362-3: 2017. Analysis was performed by GC-MS and HPLC-DAD.	mg/kg	3	n.d.

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-Toluyldiamine (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EN ISO 14362-3:2017執行測試。(EN ISO 14362-1:2017 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, EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.)

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測試報告 Test Report

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- (◆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.)

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 = Negative (陰性)
4. 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
5. Negative = 未檢出 / 陰性 ; Positive = 檢出 / 陽性
6. "-" = Not Regulated (無規格值)
7. 偶氮染料直接還原是指萃取和還原根據EN ISO 14362-1:2017第 10.2及其相關章節。(Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.)
8. (△): 此項目轉包予台灣檢驗科技股份有限公司材料暨工程實驗室-高雄進行測試。(The testing item(s) was/were subcontracted to SGS Taiwan Ltd. Material & Engineering Laboratory – Kaohsiung.)

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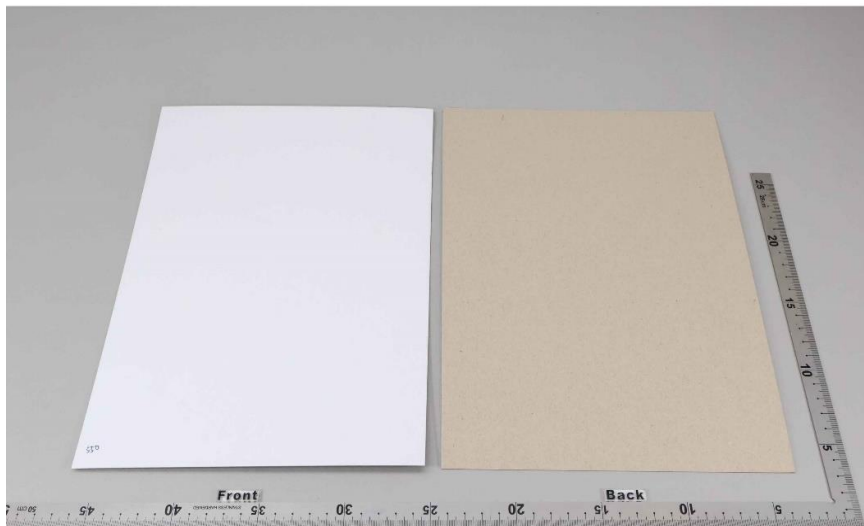
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

HKC25100090



** 報告結尾 (End of Report) **

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