

測試報告 Test Report

報告編號(No.): HKF25400070

報告日期(DATE): 2025/05/16

頁數(PAGE): 1 of 9

巧福手套企業有限公司 (CHEA-FWU CO., LTD.)

台南市官田區官田里中脇56-30號 (NO. 56-30, GUANTIAN, GUANTIAN DIST., TAINAN CITY 720, 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) :

樣品名稱(Sample Description) : NBR (NITRILE) 合成無粉橡膠手套
樣品包裝/數量(Sample Package/Quantity) : 請參考報告末頁樣品照片 (PLEASE REFER TO THE SAMPLE PHOTO AT THE END OF THE REPORT) / -
樣品保存方式(Sample Packaging) : 常溫 (AMBIENT TEMP.)
樣品型號(Style/Item No.) : -
樣品批號(Lot. No.) : -
樣品材質(Sample Material) : 合成橡膠 (NITRILE)
送樣廠商(Sample Submitted By) : 巧福手套企業有限公司 (CHEA-FWU CO., LTD.)
送樣廠商地址/電話/聯絡人(Company Add/Tel/Contact Person) : 台南市官田區官田里中脇56-30號(NO. 56-30, GUANTIAN, GUANTIAN DIST., TAINAN CITY 720, TAIWAN (R.O.C.)) / 06-6901003 / -
製造日期(Manufacturing Date) : -
有效日期(Expiry Date) : -

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收件日(Sample Receiving Date) : 2025/04/29
測試期間(Testing Period) : 2025/04/29 to 2025/05/16

測試需求 (Test Requested)

- (1) 依據之食品衛生法規為中華民國食品器具容器包裝衛生標準 (112.01.11衛授食字第1111303439號令修正) 。測試項目與方法請參閱測試結果表格。 (According to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11) to conduct test. Please refer to the result table(s) for testing item(s).)
- (2) 依據客戶要求進行測試，測試項目請參閱測試結果表格。 (The test was specified by client, please refer to the result table(s) for testing item(s).)

測試結果 (Test Results)

: 請見下一頁。(Please refer to next page(s).)

張伯睿

報告簽署人/張伯睿 博士/部經理
化學實驗室-高雄

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測試部位敘述(Test Part Description)

No.1 : NBR手套 (NBR GLOVES)

測試結果(Test Results)

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)	食品衛生 法規 (Limit)
				No.1	
★鉛 / Lead (Pb)	衛生福利部107.09.27衛授食字第1071901877號公告修正食品器具、容器、包裝檢驗方法-哺乳器具除外之橡膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Rubber except milk feeders for babies (MOHW Food No. 1071901877 announced, September 27, 2018).	ppm	5	n.d.	100
★鎘 / Cadmium (Cd)		ppm	0.5	n.d.	100
★2-巰基咪唑啉 / 2-Mercaptoimidazoline		ppm	5	n.d.	陰性 / Negative
★酚-(水, 95°C, 30分鐘) / Phenol-(water, 95°C, 30 min)		ppm	2	n.d.	5
★甲醛-(水, 95°C, 30分鐘) / Formaldehyde-(water, 95°C, 30 min)		ppm	4	n.d.	陰性 / Negative
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		ppm	-	<1	1
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		ppm	3	47	60
★鋅-(4%醋酸, 95°C, 30分鐘) / Zinc (Zn)-(4% acetic acid, 95°C, 30 min)		ppm	0.04	8.03	15
★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)		ppm	3	36	60

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(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)	食品衛生 法規 (Limit)
				No.1	
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	ppm	3	9	10
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 hr)		ppm	0.5	n.d.	9
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)		ppm	0.05	n.d.	1.5
★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hr)		ppm	0.05	n.d.	0.3
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		ppm	0.05	n.d.	18
★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)		ppm	0.5	n.d.	9
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)		ppm	0.05	n.d.	30

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台南市官田區官田里中脇56-30號 (NO. 56-30, GUANTIAN, GUANTIAN DIST., TAINAN CITY 720, TAIWAN (R.O.C.))

(1)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	LOQ/ LOD	結果 (Result)	食品衛生 法規 (Limit)
				No.1	
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)	CNS 15138-1 · Z8139-1：塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	%	0.003	n.d.	0.1
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		%	0.003	n.d.	0.1
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	0.003	n.d.	0.1
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		%	0.01	n.d.	0.1
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		%	0.003	n.d.	0.1
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		%	0.003	n.d.	0.1
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		%	0.003	n.d.	0.1
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		%	0.01	n.d.	0.1

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巧福手套企業有限公司 (CHEA-FWU CO., LTD.)

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(2)

測試項目 (Test Item(s))	測試方法 (Method)	單位 (Unit)	RL	結果 (Result)	參考限值 (Ref. Limit)
				No.1	
鄰苯二甲酸二正辛酯 (正庚烷, 25°C, 1小時) / DNOP (Di-n-octyl phthalate) (CAS No.: 117- 84-0) (n-Heptane, 25°C, 1 hr)	樣品以正庚烷浸泡, 25°C持續1小時 後, 溶出液以氣相層析質譜儀 (GC/MS)進行分析。 / The sample is immersed in n-Heptane at 25°C for 1 hour, and the eluent is analyzed by gas chromatography / mass spectrometry (GC/MS).	ppm	0.05	n.d.	-

備註(Note):

- 檢驗報告僅就委託者之委託事項提供檢驗結果, 不對產品合法性做判斷。(The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.)
- 本檢驗報告之所有檢驗內容, 均依委託事項執行檢驗, 如有不實, 願意承擔完全責任。(All contents in the test report are conducted according to the customer-specified items. If there is any falsehood, we are willing to take corresponding responsibility.)
- 本報告不得分離或擷錄使用。(The report is invalid if it is partly reproduced or used.)
- mg/kg = ppm ; 0.1wt% = 1000 ppm
- LOQ = 定量極限, 若該測試項目屬於定量分析則以「LOQ」表示; LOD = 偵測極限, 若該測試項目屬於定性分析則以「LOD」表示。(LOQ = Limit of Quantification, for quantitative analyses; LOD = Limit of Detection, for qualitative analyses.)
- n.d. = Not Detected (未檢出) = Less than (小於) LOQ/LOD = Negative (陰性)
- "-" = Not Regulated (無規格值)
- Negative = 未檢出 / 陰性; Positive = 檢出 / 陽性
- 測試項目名稱旁有★者, 為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)
- 法規標準值係依據衛生福利部112年01月11日衛授食字第1111303439號令 食品器具容器包裝衛生標準之法規限值。(The limit value(s) is/are according to "Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1111303439, amended on 2023/01/11)", Ministry of Health and Welfare of Taiwan.)

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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.)

HKF25400070**** 報告結尾 (End of Report) ****

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以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

(The information requested from client is shown as below :)

HKF25400070

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD
★鉛 / Lead (Pb)	衛生福利部107.09.27衛授食字第1071901877號公告修正食品器具、容器、包裝檢驗方法-哺乳器具除外之橡膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Rubber except milk feeders for babies (MOHW Food No. 1071901877 announced, September 27, 2018).	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
★鎘 / Cadmium (Cd)		
★2-巰基咪唑啉 / 2-Mercaptoimidazoline		
★酚-(水, 95°C, 30分鐘) / Phenol-(water, 95°C, 30 min)		
★甲醛-(水, 95°C, 30分鐘) / Formaldehyde-(water, 95°C, 30 min)		
★重金屬(以鉛計)-(4%醋酸, 95°C, 30分鐘) / Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)		
★鋅-(4%醋酸, 95°C, 30分鐘) / Zinc (Zn)-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(20%乙醇, 60°C, 30分鐘) / Evaporation residue-(20% ethanol, 60°C, 30 min)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Potassium permanganate consumption-(water, 95°C, 30 min)		
★鄰苯二甲酸二異癸酯 (正庚烷, 25°C, 1小時) / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hr)		

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以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

(The information requested from client is shown as below :)

HKF25400070

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD/RL
★鄰苯二甲酸二丁酯 (正庚烷, 25°C, 1小時) / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hr)	衛生福利部107.10.04衛授食字第1071901983號公告修正食品器具、容器、包裝檢驗方法-塑膠類之檢驗。 / Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018).	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
★己二酸二(2-乙基己基)酯 (正庚烷, 25°C, 1小時) / DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸二異壬酯 (正庚烷, 25°C, 1小時) / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸丁苯甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hr)		
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)	CNS 15138-1 · Z8139-1：塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		
★鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		
★鄰苯二甲酸二異癸酯 / DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		
★鄰苯二甲酸二乙酯 / DEP (Diethyl phthalate) (CAS No.: 84-66-2)		

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測試報告

Test Report

報告編號(No.): HKF25400070

報告日期(DATE): 2025/05/16

頁數(PAGE): 9 of 9

巧福手套企業有限公司 (CHEA-FWU CO., LTD.)

台南市官田區官田里中脇56-30號 (NO. 56-30, GUANTIAN, GUANTIAN DIST., TAINAN CITY 720, TAIWAN (R.O.C.))

以下為申請廠商委託測試項目、測試方法、定量/偵測極限：

(The information requested from client is shown as below :)

HKF25400070

測試項目 (Test Items)	測試方法 (Method)	LOQ/LOD/RL
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	CNS 15138-1 · Z8139-1：塑膠製品中鄰苯二甲酸酯類塑化劑試驗法-第1部-氣相層析質譜法。 / CNS 15138-1 Z8139-1 Method of test for determination of phthalates plasticizers in plastic products - Part 1: Gas chromatography/mass spectrometry.	詳見測試結果之定量/偵測極限。(Please refer to the result table above.)
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		
鄰苯二甲酸二正辛酯 (正庚烷, 25°C, 1小時) / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) (n-Heptane, 25°C, 1 hr)	樣品以正庚烷浸泡，25°C持續1小時後，溶出液以氣相層析質譜儀(GC/MS)進行分析。 / The sample is immersed in n-Heptane at 25°C for 1 hour, and the eluent is analyzed by gas chromatography / mass spectrometry (GC/MS).	

測試項目名稱旁有★者，為本實驗室通過衛生福利部認證項目。(The test method marked with ★ is accredited by MOHW.)