

測試報告

Test Report

報告編號(No.): CT/2020/31565 報告日期(Date): 2020/04/13 頁數(Page) : 1 of 9

台灣希悅爾股份有限公司
SEALED AIR TAIWAN LTD.

台北市內湖區內湖路一段300號3樓之5
3F-5, NO.300, SEC 1, NEIHU ROAD, NEIHU DIST., TAIPEI CITY 11493, 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) : CRYOVAC®快爾衛高溫蒸煮包裝袋
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) : 室溫 (ROOM TEMPERATURE)
樣品型號(Style/Item No.) : 快爾衛高溫蒸煮包裝袋系列
樣品批號(Lot No.) : -
樣品材質(Sample Material) : PA/PE (與食物接觸面) (PA/PE (FOOD CONTACT SIDE))
送樣廠商(Sample Submitted By) : 台灣希悅爾股份有限公司 (SEALED AIR TAIWAN LTD.)
送樣廠商地址/電話/聯絡人(Company Address/Tel/Contact Person) : 台北市內湖區內湖路一段300號3樓-5 / 0281786999 / 洪坤楠 (3F-5, NO.300, SEC 1, NEIHU ROAD, NEIHU DIST., TAIPEI CITY 11493, TAIWAN(R.O.C) / 0281786999 / 洪坤楠)
製造日期(Manufacturing Date) : -
有效日期(Expiry Date) : -
原產國(Country of Origin) : 中國 (CHINA)
原料(Raw material) : 台灣、中國、美國 (TAIWAN, CHINA, USA)
製袋(Bag making) : 中國 (CHINA)
收件日期(Sample Receiving Date) : 2020/03/30
測試期間(Testing Period) : 2020/03/30 TO 2020/04/10

測試需求(Test Requested) :

依據客戶指定，參考中華民國食品器具容器包裝衛生標準 (102.08.20部授食字第1021350146號令修正)進行測試。測試項目請參閱測試結果表格。 / As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146 amended on 2013/08/20) to conduct test. Please refer to the result table for testing item(s).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

蕭志祥

蕭志祥 / 副理
化學實驗室-台北
台灣檢驗科技股份有限公司
報告簽署人



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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 透明塑膠及其上多彩印刷 (TRANSPARENT PLASTIC WITH MULTI-COLORED PRINTED)

測試部位(PART NAME)No. 2 : 透明塑膠(與食物接觸面) (TRANSPARENT PLASTIC (FOOD CONTACT SIDE))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)		限值 (Limit)
				No. 1	No. 2	
★鉛 / Lead (Pb)	ppm	食品器具、容器、包裝檢驗方法-塑膠類之檢驗(107年10月4日衛授食字第1071901983號公告), 以ICP-AES分析. / According to Methods of Test for Food Utensils,	5	n. d.	---	100
★鎘 / Cadmium (Cd)	ppm	Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, Oct 04, 2018). Analysis was performed by ICP-AES.	0.5	n. d.	---	100
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Consumption of potassium permanganate-(water, 95°C, 30 min)	ppm		3	---	n. d.	10
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(water, 95°C, 30 min)	ppm	食品器具、容器、包裝檢驗方法-聚乙烯(PE)塑膠類之檢驗(107年9月17日衛授食字第1071901780號公告).	10	---	n. d.	30
★蒸發殘渣-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)	ppm	/ According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic	10	---	n. d.	30
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 h)	ppm	Products (MOHW Food No. 1071901780 announced, Sep 17, 2018).	10	---	n. d.	30 (*1)
★蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 60°C, 30 min)	ppm		10	---	n. d.	30

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)		限值 (Limit)
				No. 1	No. 2	
★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	食品器具、容器、包裝檢驗方法-聚乙烯(PE)塑膠類之檢驗(107年9月17日衛授食字第1071901780號公告)。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic Products (MOHW Food No. 1071901780 announced, Sep 17, 2018).	-	---	<1	1
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	CNS 15138-1 (民國101年), 以氣相層析/質譜儀檢測。 / According to CNS 15138-1 (2012). Analysis was performed by GC/MS.	0.003	n. d.	---	0.1
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)	%		0.003	n. d.	---	0.1
★鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%		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
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%		0.01	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

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	LOQ/LOD	結果 (Result)		限值 (Limit)
				No. 1	No. 2	
★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 h)	ppm	食品器具、容器、包裝檢驗方法-塑膠類之檢驗(107年10月4日衛授食字第1071901983號公告), 以氣相層析/質譜儀檢測。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, Oct 04, 2018). Analysis was performed by GC/MS.	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 h)	ppm		0.05	---	n. d.	0.3
★鄰苯二甲酸丁苄甲酯 (正庚烷, 25°C, 1小時) / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 h)	ppm		0.05	---	n. d.	30
★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 h)	ppm		0.5	---	n. d.	9
★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 h)	ppm		0.5	---	n. d.	9
★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 h)	ppm		0.05	---	n. d.	18

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備註(Note):

1. 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.)
2. 本報告不得分離或擷錄使用。/ The report is invalid if it is partly reproduced or used.
3. 0.1 wt% = 1000 ppm
4. LOQ = Limit of Quantification (定量極限); LOD = Limit of Detection(偵測極限)
5. n.d. = Not Detected (未檢出) = 小於 (less than) LOQ / LOD
6. (*1): 針對油脂及脂肪性食品用容器、包裝。(For containers and packages for oils and fatty foods.)
7. "-" = Not Regulated (無規格值)
8. "---" = Not Conducted (未測項目)
9. 測試項目名稱旁有★者，為本實驗室通過衛生福利部食品藥物管理署認證項目。(The test method marked with ★ is accredited by MOHW.)
10. 測試項目名稱旁有●者，為本實驗室擴充原方法適用基質，非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MOHW accreditation.)
11. 此用途為自主品管報告。(This testing report is subject to independent quality control.)

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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.)

CT/2020/31565 NO.1



CT/2020/31565 NO.2



** 報告結尾 (End of Report) **

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3F-5, NO.300, SEC 1, NEIHU ROAD, NEIHU DIST., TAIPEI CITY 11493, 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 :)

CT/2020/31565

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★鉛 / Lead (Pb)	食品器具、容器、包裝檢驗方法-塑膠類之檢驗(107年10月4日衛授食字第1071901983號公告)，以ICP-AES分析。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, Oct 04, 2018). Analysis was performed by ICP-AES.	
★鎘 / Cadmium (Cd)		
★鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	CNS 15138-1 (民國101年)，以氣相層析/質譜儀檢測。 / According to CNS 15138-1 (2012). Analysis was performed by GC/MS.	詳見測試結果之定量/偵測極限(Please refer to the result table above.)
★鄰苯二甲酸二丁酯 / DBP (Di-n-butyl phthalate) (CAS No. : 84-74-2)		
★鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)		
★鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0)		
★鄰苯二甲酸二異壬酯 / DINP (Diisononyl phthalate) (CAS No. : 28553-12-0; 68515-48-0)		
★鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No. : 131-11-3)		
★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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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 :)

CT/2020/31565

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★高錳酸鉀消耗量-(水, 95°C, 30分鐘) / Consumption of potassium permanganate-(water, 95°C, 30 min)	食品器具、容器、包裝檢驗方法-聚乙烯(PE)塑膠類之檢驗(107年9月17日衛授食字第1071901780號公告). / According to Methods of Test for Food Utensils, Containers and Packages - Test of Polyethylene (PE) Plastic Products (MOHW Food No. 1071901780 announced, Sep 17, 2018).	詳見測試結果之定量/偵測極限(Please refer to the result table above.)
★蒸發殘渣-(水, 95°C, 30分鐘) / Evaporation residue-(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-(4%醋酸, 95°C, 30分鐘) / Evaporation residue-(4% acetic acid, 95°C, 30 min)		
★蒸發殘渣-(正庚烷, 25°C, 1小時) / Evaporation residue-(n-Heptane, 25°C, 1 h)		
★蒸發殘渣-(20%酒精, 60°C, 30分鐘) / Evaporation residue-(20% alcohol, 60°C, 30 min)		
★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 h)		
★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 h)		

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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 :)

CT/2020/31565

測試項目 (Test Items)	測試方法 (Method)	LOQ / LOD
★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 h)	食品器具、容器、包裝檢驗方法-塑膠類之檢驗(107年10月4日衛授食字第1071901983號公告), 以氣相層析/質譜儀檢測。 / According to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, Oct 04, 2018). Analysis was performed by GC/MS.	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 h)		
★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 h)		
★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 h)		

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

測試項目名稱旁有●者, 為本實驗室擴充原方法適用基質, 非屬食藥署該項認證範圍。(When there is a ● next to the test item, the test method was applied to the material out of the scope from MOHW accreditation.)