

# **Test Report**

台灣化學纖維股份有限公司 FORMOSA CHEMICALS & FIBRE CORPORATION 台北市敦化北路201號 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

號碼(No.): CE/2016/13616

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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 : 台灣化學纖維股份有限公司 (FORMOSA CHEMICALS & FIBRE CORPORATION)

: ACRYLONITRILE/BUTADIENE/STYRENE COPOLYMERS (丙烯腈/丁二烯/苯乙烯共聚合樹脂) 樣品名稱(Sample

樣品型號(Style/Item No.) : TAIRILAC AG12A0, AG12A1, AG12A3, AG15A0, AG15A1, AG15A1-H, AG15A2, AG15A3,

AG15AM, AG15EO, AG15E1, AG15E3, AG1000, AG10AP, AG15AB, AG15AJ, AG12AJ, AH2003, AF3500, AF3560, AF3600, AX4000, AX4100, AX4300, AG22AT, AG23AT, AT5500, AG10NP, AG10NP-T, AG10NP-H, AE8000, AE8200, ANC100, ANC120

日期(Date): 2016/01/25

收件日期(Sample Receiving : 2016/01/19

測試期間(Testing Period) : 2016/01/19 TO 2016/01/25

#### 測試需求(Test Requested):

依據客戶指定,參考ROHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試編、鉛、 汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)

测試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) 根據客戶所提供的樣品,其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP,

> DEHP, DIBP的測試結果符合RoHS指令暨(EU) 2015/863之限值要求. (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as

set by RoHS and amending Directive (EU) 2015/863.)

Troy Chang<sup>†</sup> Manager ¥ Tech Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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#### 測試結果(Test Results)

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測試部位(PART NAME)No.1
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG12A0))
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG12A1))
測試部位(PART NAME)No. 2
測試部位(PART NAME)No.3
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG12A3))
測試部位(PART NAME)No.4
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15A0))
測試部位(PART NAME)No.5
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15A1))
測試部位(PART NAME)No.6
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15A1-H))
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15A2))
測試部位(PART NAME)No.7
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15A3))
測試部位(PART NAME)No. 8
測試部位(PART NAME)No.9
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15AM))
測試部位(PART NAME)No.10
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15E0))
                         米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15E1))
測試部位(PART NAME)No.11
測試部位(PART NAME)No.12
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG15E3))
測試部位(PART NAME)No.13
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG1000))
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG10AP))
測試部位(PART NAME)No.14
測試部位(PART NAME)No.15
                       : 黑色塑膠粒 (BLACK PLASTIC PELLETS (AG15AB))
                       : 黑色塑膠粒 (BLACK PLASTIC PELLETS (AG15AJ))
測試部位(PART NAME)No.16
                       : 黑色塑膠粒 (BLACK PLASTIC PELLETS (AG12AJ))
測試部位(PART NAME)No.17
測試部位(PART NAME)No.18
                       : 黑色塑膠粒 (BLACK PLASTIC PELLETS (AH2003))
測試部位(PART NAME)No.19
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AF3500))
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AF3560))
測試部位(PART NAME)No. 20
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AF3600))
測試部位(PART NAME)No. 21
測試部位(PART NAME)No. 22
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AX4000))
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AX4100))
測試部位(PART NAME)No. 23
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AX4300))
測試部位(PART NAME)No. 24
測試部位(PART NAME)No. 25
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG22AT))
測試部位(PART NAME)No. 26
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG23AT))
測試部位(PART NAME)No. 27
                       : 透明塑膠粒 (TRANSPARENT PLASTIC PELLETS (AT5500))
                       : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG10NP))
測試部位(PART NAME)No. 28
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日期(Date): 2016/01/25



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: 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG10NP-T)) 測試部位(PART NAME)No. 29 測試部位(PART NAME)No. 30 : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AG10NP-H)) : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AE8000)) 測試部位(PART NAME)No.31 測試部位(PART NAME)No.32 : 米色塑膠粒 (BEIGE PLASTIC PELLETS (AE8200)) 測試部位(PART NAME)No.33 : 白色塑膠粒 (WHITE PLASTIC PELLETS (ANC100)) 測試部位(PART NAME)No. 34 : 米色塑膠粒 (BEIGE PLASTIC PELLETS (ANC120))

號碼(No.): CE/2016/13616

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	lt)	限值 (Limit)	
(Test Items)	(UIII t)	(method)	(MDL)	No. 1	No. 2	No. 3	(LIMIC)
鎬 / Cadmium (Cd)		參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)		参考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85- 68-7)	mg/kg	参考IEC 62321-8 (111/321/CD) ,以氣相層析儀/質譜儀檢測之.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)		/ With reference to IEC 62321-8 (111/321/CD).	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000

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測試項目	單位 (Unit)	測試方法	方法偵測 極限值	結	果(Resu	lt)	限值 (Limit)
(Test Items)	Contro	(Method)	(MDL)	No. 1	No. 2	No. 3	(LIMIL)
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	參考IEC 62321-8 (111/321/CD) ,以氣相層析儀/質譜儀檢測之. / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.	n.d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	n.d.	n. d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測./	5	n. d.	n. d.	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	With reference to IEC 62321-6: 2015 and performed by	-	n. d.	n.d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-

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測試項目 (Test Items)	單位 (Unit)	测試方法	方法偵測 極限值	結	lt)	限值 -(Limit)	
	Contro	(Method)	(MDL)	No. 4	No. 5	No. 6	(LIMIL)
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg	   參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測./	5	n. d.	n. d.	n. d.	-
五溴聯苯 / Pentabromobiphenyl		With reference to IEC 62321-	5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg	6: 2015 and performed by	5	n. d.	n. d.	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限值	結	果(Resu	lt)	限值
·	(UIIIT)	(Method)	(MDL)	No. 4	No. 5	No. 6	(Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯醚 / Tribromodiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg	以氣相層析/質譜儀檢測. /	5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg	With reference to IEC 62321-	5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl		6: 2015 and performed by	5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	_
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	參考IEC 62321-8 (111/321/CD) ,以氣相層析儀/質譜儀檢測之.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	/ With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	UC/ MS.	50	n. d.	n. d.	n. d.	1000
測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	果(Resu	lt)	限值 -(Limit)
		(me tilou)	(MDL)	No. 7	No. 8	No. 9	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限值	結	果(Resu	lt)	限值
	(UIII L)	(Method)	(MDL)	No. 7	No. 8	No. 9	(Limit)
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法, 以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg	4 + IDC 00001 0 0015 - V	5	n. d.	n. d.	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg	参考IEC 02321-0: 2013万法,	5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測./	5	n. d.	n. d.	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	With reference to IEC 62321-	_	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	6: 2015 and performed by	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-

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測試項目 (Test Items)	單位 (Unit)	<b>測試万法</b>	方法偵測 極限值	結果 (Result)			限值 -(Limit)
	(onit t)	(Method)	(MDL)	No. 7	No. 8	No. 9	(LIMIC)
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85- 68-7)	mg/kg		50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	參考IEC 62321-8 (111/321/CD) ,以氣相層析儀/質譜儀檢測之.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		/ With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n.d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	00/ HD.	50	n. d.	n. d.	n. d.	1000

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(6111 0)	(method)	(MDL)	No. 10	No. 11	No. 12	
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法, 以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000



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測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限值	結	果(Resu	lt)	限值 (Limit)
	(UIII t)	(Method)	(MDL)	No. 10	No. 11	No. 12	(LIMIL)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	_
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測. / With reference to IEC 62321-	5	n. d.	n. d.	n. d.	_
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	6: 2015 and performed by	_	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	_
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_



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測試項目 (Test Items)	單位 測試方法 (Unit) (Method)		方法偵測 極限值	結果 (Result)			限值 (Limit)
	(0.1.1.0)	(method)	(MDL)	No. 10	No. 11	No. 12	(DIMIC)
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)			50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	<ul><li>参考IEC 62321-8 (111/321/CD)</li><li>,以氣相層析儀/質譜儀檢測之.</li><li>/ With reference to IEC</li></ul>	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	uu/ mu.	50	n. d.	n. d.	n. d.	1000

測試項目 (Test Items)	單位 (Unit)	単位 別試方法 (Unit) Method) 極	方法偵測 極限值 結果 (Result)			lt)	限值 —(Limit)
	(6)	(me thod)	(MDL)	No. 13	No. 14	No. 15	(LIMIC)
鎬 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	测試方法	方法偵測 極限值	結	果(Resu	lt)	限值 (Limit)
	(UIII L)	(Method)	(MDL)	No. 13	No. 14	No. 15	(LIMIT)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	_
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測. / With reference to IEC 62321-	5	n. d.	n. d.	n. d.	_
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	6: 2015 and performed by	-	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	lt)	限值 (Limit)	
	(0.110)	(method)	(MDL)	No. 13	No. 14	No. 15	
鄰苯二甲酸丁苯甲酯 / BBP (Butyl	mg/kg		50	n. d.	n. d.	n. d.	1000
Benzyl phthalate) (CAS No.: 85-							
68-7)		A HITC 00001 0 (111 (001 (0D)					
鄰苯二甲酸二丁酯 / DBP (Dibutyl	mg/kg	參考IEC 62321-8 (111/321/CD)	50	n. d.	n. d.	n. d.	1000
phthalate) (CAS No.: 84-74-2)		,以氣相層析儀/質譜儀檢測之. / With reference to IEC					
鄰苯二甲酸二 (2-乙基己基)酯 /	mg/kg	62321-8 (111/321/CD).	50	n. d.	n. d.	n. d.	1000
DEHP (Di- (2-ethylhexyl)		Analysis was performed by					
phthalate) (CAS No.: 117-81-7)		GC/MS.					
鄰苯二甲酸二異丁酯 / DIBP (Di-	mg/kg	UC/ MO.	50	n. d.	n. d.	n. d.	1000
isobutyl phthalate) (CAS No.:							

測試項目 (Test Items)	単位   測試方法   極   Method)	方法偵測 極限值 結果 (Result)			lt)	限值 —(Limit)	
	(	(mc thou)	(MDL)	No. 16	No. 17	No. 18	(Limit)
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限值	結	限值 -(Limit)		
	(UIII L)	(Method)	(MDL)	No. 16	No. 17	No. 18	(LIMIT)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測./	5	n. d.	n. d.	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	With reference to IEC 62321-6: 2015 and performed by	-	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-

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# **Test Report**

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(0.1.1.0)	(method)	(MDL)	No. 16	No. 17	No. 18	
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)			50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	參考IEC 62321-8 (111/321/CD) ,以氣相層析儀/質譜儀檢測之. / With reference to IFC	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	/ With reference to IEC 32321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	oo/ mo.	50	n. d.	n. d.	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(6)	(me thod)	(MDL)	No. 19	No. 20	No. 21	(DIMIC)
鎬 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	会測. / With reference to EC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000



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測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限值	結	限值 -(Limit)		
	(UIII t)	(Method)	(MDL)	No. 19	No. 20	No. 21	СТШТС
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測. / With reference to IEC 62321-	5	n. d.	n. d.	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	6: 2015 and performed by	-	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(0.1.1.0)	(method)	(MDL)	No. 19	No. 20	No. 21	
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)			50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	<ul><li>参考IEC 62321-8 (111/321/CD)</li><li>,以氣相層析儀/質譜儀檢測之.</li></ul>	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		/ With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	uu/ mu.	50	n. d.	n. d.	n. d.	1000

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(01110)	(me thod)	(MDL)	No. 22	No. 23	No. 24	
鎬 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	<b>測試力法</b>	方法偵測 極限值	結	限值 -(Limit)		
	(UIII L)	(Method)	(MDL)	No. 22	No. 23	No. 24	(LIMIL)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測./	5	n. d.	n. d.	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	With reference to IEC 62321-6: 2015 and performed by	_	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(0	(me thou)	(MDL)	No. 22	No. 23	No. 24	
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	<ul><li>参考IEC 62321-8 (111/321/CD)</li><li>,以氣相層析儀/質譜儀檢測之.</li><li>/ With reference to IEC</li></ul>	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		62321-8 (111/321/CD). Analysis was performed by	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	GC/MS.	50	n. d.	n. d.	n. d.	1000

測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限值	結	限值 (Limit)		
	(onit)	(Method)	(MDL)	No. 25	No. 26	No. 27	
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	測試方法	方法偵測 極限值	結	限值 (Limit)		
	(UIII t)	(Method)	(MDL)	No. 25	No. 26	No. 27	(LIMIL)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	_
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測. / With reference to IEC 62321-	5	n. d.	n. d.	n. d.	_
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	6: 2015 and performed by	_	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	_
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(0.1110)	(method)	(MDL)	No. 25	No. 26	No. 27	(DIMIC)
鄰苯二甲酸丁苯甲酯 / BBP (Butyl			50	n. d.	n. d.	n. d.	1000
Benzyl phthalate) (CAS No.: 85-68-7)		A PIEG 00001 0 (111 (001 (0E)					
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	参考IEC 62321-8 (III/321/CD)		n. d.	1000		
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	UC/MS.	50	n. d.	n. d.	n. d.	1000

測試項目 (Test Items)	單位 (Unit)			結	限值 (Limit)		
	(	(mc thod)	(MDL)	No. 28	No. 29	No. 30	(Dimit)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	結果 (Result)		
	(onit)	(method)	(MDL)	No. 28	No. 29	No. 30	(Limit)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	_
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測./	5	n. d.	n. d.	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	With reference to IEC 62321-6: 2015 and performed by	-	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	_
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-

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**Test Report** 

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台灣化學纖維股份有限公司 FORMOSA CHEMICALS & FIBRE CORPORATION 台北市敦化北路201號 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結	限值 (Limit)		
	(UIII U)	(method)	(MDL)	No. 28	No. 29	No. 30	(LIMIC)
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)			50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	<ul><li>参考IEC 62321-8 (111/321/CD)</li><li>,以氣相層析儀/質譜儀檢測之.</li><li>/ With reference to IEC</li></ul>	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)		62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	uu/ mu.	50	n. d.	n. d.	n. d.	1000

I (IACT ITAMC)	單位 (Unit)	· I 1/2		結	限值 (Limit)		
	(onit)	(Method)	(MDL)	No. 31	No. 32	No. 33	(LIMIL)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀	2	n. d.	n. d.	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	n. d.	19	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	n. d.	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法, 以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	n. d.	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	测試方法	方法偵測 極限值	結	結果 (Result)		
	(UIII L)	(Method)	(MDL)	No. 31	No. 32	No. 33	(Limit)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	n. d.	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg	參考IEC 62321-6: 2015方法,	5	n. d.	n. d.	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測./	5	n. d.	n. d.	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	With reference to IEC 62321-6: 2015 and performed by	-	n. d.	n. d.	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	n. d.	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	n. d.	n. d.	-
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	n. d.	n. d.	-



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測試項目 (Test Items)	單位 (Unit)	測試力法	方法偵測 極限值	結	限值 (Limit)		
	(onit)	(method)	(MDL)	No. 31	No. 32	No. 33	(LIMIC)
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	參考IEC 62321-8 (111/321/CD) ,以氣相層析儀/質譜儀檢測之. / With reference to IEC	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	n. d.	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	oc/ mg.	50	n. d.	n. d.	n. d.	1000

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.34	限值 (Limit)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以威應耦合電漿原子發射光譜儀	2	n. d.	100
鉛 / Lead (Pb)	mg/kg	檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀 檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n. d.	1000

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	限值 (Limit)
多溴聯苯總和 / Sum of PBBs	mg/kg		_	n. d.	1000
一溴聯苯 / Monobromobiphenyl	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	參考IEC 62321-6: 2015方法,	5	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg	以氣相層析/質譜儀檢測. /	5	n. d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	With reference to IEC 62321-6: 2015 and performed by	-	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl	mg/kg	GC/MS.	5	n. d.	_
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	-
三溴聯苯醚 / Tribromodiphenyl	mg/kg		5	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl	mg/kg		5	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl	mg/kg		5	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl	mg/kg		5	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl	mg/kg		5	n. d.	_
八溴聯苯醚 / Octabromodiphenyl	mg/kg		5	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl	mg/kg		5	n. d.	_
十溴聯苯醚 / Decabromodiphenyl	mg/kg		5	n. d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.34	限值 (Limit)
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	A 1, 1700 00001 0 (444 (004 (00))	50	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg	<ul><li>参考IEC 62321-8 (111/321/CD)</li><li>,以氣相層析儀/質譜儀檢測之.</li><li>/ With reference to IEC</li></ul>	50	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg	62321-8 (111/321/CD). Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg	OC/ 1913.	50	n. d.	1000

#### 備註(Note):

- 1. mg/kg = ppm; 0. 1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

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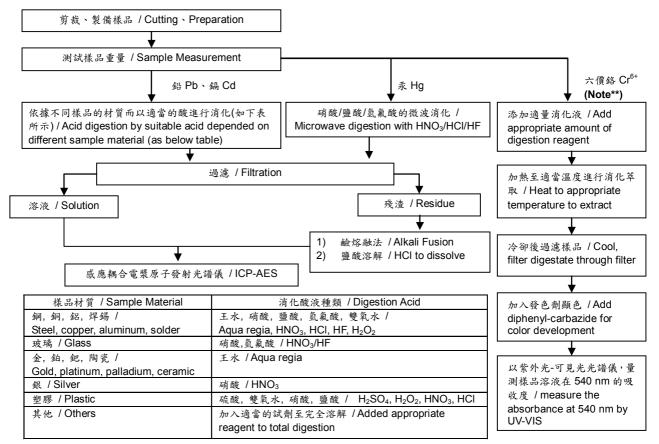
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- 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang



#### Note\*\* (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



# **Test Report**

台灣化學纖維股份有限公司 FORMOSA CHEMICALS & FIBRE CORPORATION 台北市敦化北路201號 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

號碼(No.): CE/2016/13616



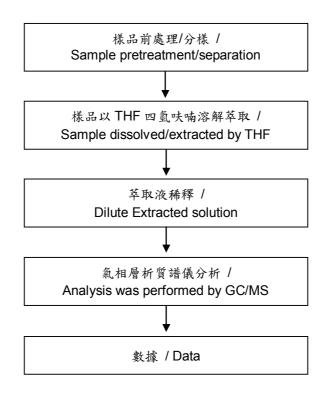
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

日期(Date): 2016/01/25

- 測試人員:徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人: 張啟興 / Name of the person in charge of measurement: Troy Chang

#### 【測試方法/Test method: IEC 62321-8】





# **Test Report**

台灣化學纖維股份有限公司 FORMOSA CHEMICALS & FIBRE CORPORATION 台北市敦化北路201號 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C. 頁數(Page): 29 of 38

#### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

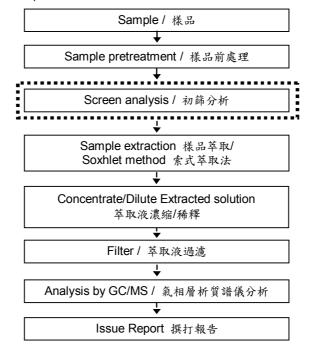
日期(Date): 2016/01/25

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process -選擇性篩檢程序 / Optional screen process ••••

確認程序 / Confirmation process - · - · ▶

號碼(No.): CE/2016/13616





**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.)

日期(Date): 2016/01/25

CE/2016/13616 NO.1



CE/2016/13616 NO.2



CE/2016/13616 NO.3



CE/2016/13616 NO.4





# **Test Report**

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# CE/2016/13616 NO.5

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## CE/2016/13616 NO.6



# CE/2016/13616 NO.7



# CE/2016/13616 NO.8





# **Test Report**

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# CE/2016/13616 NO.10



# CE/2016/13616 NO.11



# CE/2016/13616 NO.12





# **Test Report**

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CE/2016/13616 NO.16





# **Test Report**

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CE/2016/13616 NO.18



CE/2016/13616 NO.19



CE/2016/13616 NO.20





# **Test Report**

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## CE/2016/13616 NO.22



# CE/2016/13616 NO.23



# CE/2016/13616 NO.24





# **Test Report**

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## CE/2016/13616 NO.26



# CE/2016/13616 NO.27



# CE/2016/13616 NO.28





# **Test Report**

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# CE/2016/13616 NO.30



# CE/2016/13616 NO.31



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# **Test Report**

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\*\* 報告結尾 (End of Report) \*\*