

測試報告 KE/2013/11048A-01 日期: 2013/01/17 頁數 1 of 8

台灣塑膠工業股份有限公司 台北市敦化北路 201 號 8 樓

以下測試樣品係由客戶送樣,且由客戶聲稱並經客戶確認如下:

產品名稱 : 台塑鋼 產品顏色 : 白色 型號 : FM270 樣品材質 : 聚甲醛

送樣廠商 : 台灣塑膠工業股份有限公司

: 2013/01/11 樣品接收日期

測試期間 2013/01/11 to 2013/01/17

測試要求: 基於歐洲化學品管理署截止 2012 年 12 月 19 日公佈的供授權審議的高關注物質候選清單(根

據歐盟第 1907/2006 號 REACH 法規),對 138 種高關注物質進行篩分測試。

測試方法: 請參見下一頁

總結:

根據具體的測試範圍和分析技術,樣品中測試的高關注物質濃度都≤ 涌渦 0.1%(w/w) •

此為 2013/01/17 所發行 KE/2013/11048 之加發報告,原始資料請參考 KE/2013/11048。



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備註:

(1) 本報告所涉及的關於特定高關注物質的化學分析是根據歐洲化學品管理署發佈的下列文件,利用 現有的分析技術完成的。

http://echa.europa.eu/web/guest/candidate-list-table (候選清單)

這些文件清單由歐洲化學品管理署評估,將來可能會有變化。

- (2) 本報告的測試結果是基於提交的均質材料測試樣品。 如果這些材料被用來製造一件物品,本測試報告中的資料並不代表該物品中的高關注物質濃度。
- (3) 除非特別注明, 一般情況下 SGS 採用歐盟化學品管理局(ECHA)對物品中高關注物質定義的解釋。 詳細的解釋請參考下面的連結:

http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf

- (4) 如果樣品中高關注物質的測試結果超過 0.1%(w/w), 建議客戶進一步定量分析檢測含有高關注物質 的組分並且得到高關注物質的準確濃度。
- (5) 如果樣品是一種物質或混合物,並且直接出口到歐盟,客戶端有責任遵守歐盟第 1907/2006 號 REACH 法規第31條供應鏈資訊傳遞的義務和附件十四中的授權高關注物質授權的責任。

測試樣品:

樣品部件外觀描述:

組件編號	部件編號	描述
А	1	白色台塑鋼

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測試方法:

SGS 內部方法,採用 ICP-OES、GC-MS、GC-ECD、GC-FPD、UV-VIS、HPLC-DAD 和 HPLC-MS。

測試結果: (每個組件)

物質名稱	CAS No.	EC No.	濃度 (%)	RL (%)
1,2,3-三氯丙烷	96-18-4	202-486-1	ND	0.050
1,2-苯二酸-二(C6-8 支鏈)烷基酯(富 C7)	71888-89-6	276-158-1	ND	0.050
1,2-苯二酸-二(C7-11 支鏈與直鏈)烷基(醇)酯	68515-42-4	271-084-6	ND	0.050
1,2-二氯乙烷	107-06-2	203-458-1	ND	0.050
1-甲基-2-吡咯烷酮	872-50-4	212-828-1	ND	0.050
2,2'-二氯-4,4'-二氨基二苯甲烷	101-14-4	202-918-9	ND	0.050
2,4-二硝基甲苯+	121-14-2	204-450-0	ND	0.050
乙二醇乙醚	110-80-5	203-804-1	ND	0.050
乙二醇乙醚醋酸酯	111-15-9	203-839-2	ND	0.050
2-甲氧基苯胺	90-04-0	201-963-1	ND	0.050
乙二醇單甲醚	109-86-4	203-713-7	ND	0.050
4,4'-二氨基二苯甲烷(MDA)	101-77-9	202-974-4	ND	0.050
對特辛基苯酚	140-66-9	205-426-2	ND	0.050
2,4,6-三硝基-5-叔丁基間二甲苯(二甲苯麝香)	81-15-2	201-329-4	ND	0.050
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸, 重鉻酸, 鉻酸與重鉻酸的寡聚體	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	ND	0.005
丙烯醯胺	79-06-1	201-173-7	ND	0.050
C10-13 氯代烴(短鏈氯化石蠟)	85535-84-8	287-476-5	ND	0.050
矽酸鋁耐火陶瓷纖維*	650-017-00-8 (Index no.)	-	ND	0.005
重鉻酸銨*	7789-09-5	232-143-1	ND	0.005
蒽	120-12-7	204-371-1	ND	0.050
葱油*	90640-80-5	292-602-7	ND	0.050
蔥油,蔥糊*	90640-81-6	292-603-2	ND	0.050
蒽油,蒽糊,蒽餾分*	91995-15-2	295-275-9	ND	0.050
蒽油,蒽糊,輕油*	91995-17-4	295-278-5	ND	0.050
蔥油,含蔥量少*	90640-82-7	292-604-8	ND	0.050
砷酸*	7778-39-4	231-901-9	ND	0.005
鄰苯二甲酸丁酯苯甲酯 (BBP)	85-68-7	201-622-7	ND	0.050
鄰苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	204-211-0	ND	0.050

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物質名稱	CAS No.	EC No.	濃度 (%)	RL (%)
雙(2-甲氧基乙基)醚	111-96-6	203-924-4	ND	0.050
鄰苯二甲酸二(2-甲氧基乙基)酯	117-82-8	204-212-6	ND	0.050
氧化雙三丁基錫(TBTO)	56-35-9	200-268-0	ND	0.050
硼酸*	10043-35-3 11113-50-1	233-139-2 234-343-4	ND	0.005
砷酸鈣*	7778-44-1	231-904-5	ND	0.005
三氧化鉻*	1333-82-0	215-607-8	ND	0.005
二氯化鈷*	7646-79-9	231-589-4	ND	0.005
碳酸鈷(二價)*	513-79-1	208-169-4	ND	0.005
醋酸鈷(二價)*	71-48-7	200-755-8	ND	0.005
硝酸鈷(二價)*	10141-05-6	233-402-1	ND	0.005
硫酸鈷(二價)*	10124-43-3	233-334-2	ND	0.005
五氧化二砷**	1303-28-2	215-116-9	ND	0.005
三氧化二砷**	1327-53-3	215-481-4	ND	0.005
鄰苯二甲酸二丁酯(DBP)	84-74-2	201-557-4	ND	0.050
鉻酸鉻*	24613-89-6	246-356-2	ND	0.005
鄰苯二甲酸二異丁酯+	84-69-5	201-553-2	ND	0.050
無水四硼酸二鈉*	1303-96-4 1330-43-4 12179-04-3	215-540-4	ND	0.005
甲醛與苯胺的寡聚體	25214-70-4	500-036-1	ND	0.050
六溴環十二烷(HBCDD)及主要異構物 (α-HBCDD, β-HBCDD, γ-HBCDD) ^Δ	25637-99-4 3194-55-6	247-148-4 221-695-9	ND	0.050
聯氨	7803-57-8 302-01-2	206-114-9	ND	0.050
鉬鉻紅(C.I.顏料紅 104) **	12656-85-8	235-759-9	ND	0.005
鉻酸鉛* [★]	7758-97-6	231-846-0	ND	0.005
疊氮化鉛*	13424-46-9	236-542-1	ND	0.005
苦味酸鉛*	6477-64-1	229-335-2	ND	0.005
砷酸氫鉛*	7784-40-9	232-064-2	ND	0.005
中性斯蒂酚酸鉛*	15245-44-0	239-290-0	ND	0.005
鉛鉻黃(C.I.顏料黃 34) **	1344-37-2	215-693-7	ND	0.005
N,N-二甲基乙醯胺	127-19-5	204-826-4	ND	0.050
八氫氧化五鉻酸鋅*	49663-84-5	256-418-0	ND	0.005
酌質	77-09-8	201-004-7	ND	0.050
瀝青,煤焦油,高溫*	65996-93-2	266-028-2	ND	0.050

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物質名稱	CAS No.	EC No.	濃度 (%)	RL (%)
鉻酸鉀*	7789-00-6	232-140-5	ND	0.005
重鉻酸鉀*	7778-50-9	231-906-6	ND	0.005
氫氧化鉻酸鋅鉀*	11103-86-9	234-329-8	ND	0.005
鉻酸鈉*	7775-11-3	231-889-5	ND	0.005
重鉻酸鈉*	7789-12-0 10588-01-9	234-190-3	ND	0.005
鉻酸鍶*	7789-06-2	232-142-6	ND	0.005
水合硼酸鈉*	12267-73-1	235-541-3	ND	0.005
三氯乙烯	79-01-6	201-167-4	ND	0.050
三乙基砷酸酯*	15606-95-8	427-700-2	ND	0.005
砷酸鉛*	3687-31-8	222-979-5	ND	0.005
磷酸三(2-氯乙基)酯⁺	115-96-8	204-118-5	ND	0.050
氧化鋯矽酸鋁耐火陶瓷纖維*	650-017-00-8 (Index no.)	-	ND	0.005
C.I.鹼性藍 26	2580-56-5	219-943-6	ND	0.050
C.I.鹼性紫 3	548-62-9	208-953-6	ND	0.050
三乙二醇二甲醚	112-49-2	203-977-3	ND	0.050
乙二醇二甲醚	110-71-4	203-794-9	ND	0.050
4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	202-027-5	ND	0.050
4,4'-二(二甲氨基)-4"-甲氨基三苯甲醇	561-41-1	209-218-2	ND	0.050
三氧化二硼*	1303-86-2	215-125-8	ND	0.005
甲醯胺	75-12-7	200-842-0	ND	0.050
甲基磺酸鉛*	17570-76-2	401-750-5	ND	0.005
N,N,N'N'-四甲基-4,4'-二氨基二苯甲烷(米氏 鹼)	101-61-1	202-959-2	ND	0.050
1,3,5-三(環氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮	2451-62-9	219-514-3	ND	0.050
C.I.溶劑藍 4	6786-83-0	229-851-8	ND	0.050
1,3,5-三-[(2S 和 2R)-2,3-環氧丙基]-1,3,5-三 嗪-2,4,6-(1H, 3H, 5H)-三酮	59653-74-6	423-400-0	ND	0.050
[1,2-苯二羧酸根合]二氧化三鉛*	69011-06-9	273-688-5	ND	0.005
支鏈和直鏈 1,2-苯二羧二戊酯	84777-06-0	284-032-2	ND	0.050
乙二醇二乙醚	629-14-1	211-076-1	ND	0.050
正丙基溴	106-94-5	203-445-0	ND	0.050
3-乙基-2-甲基-2-(3-甲基丁基)-1,3-惡唑烷	143860-04-2	421-150-7	ND	0.050
4-(1,1,3,3-四甲基丁基)苯酚,乙氧基 - 以及所有的被定義的物質,未知成分或可變成分的物質,聚合物和同系物	-	-	ND	0.050

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4,4'-二氨基-3,3'-二甲基聯苯基甲烷	838-88-0	212-658-8	ND	0.050
4,4'-二氨基二苯醚	101-80-4	202-977-0	ND	0.050
4-苯基偶氮基苯胺	60-09-3	200-453-6	ND	0.050
2,4-二氨基甲苯	95-80-7	202-453-1	ND	0.050
分支或線性的壬基酚,包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 UVCB 物質	-	-	ND	0.050
3-甲基-6-甲氧基苯胺	120-71-8	204-419-1	ND	0.050
堿式醋酸鉛*	51404-69-4	257-175-3	ND	0.005
4-胺基聯苯	92-67-1	202-177-1	ND	0.050
十溴聯苯醚	1163-19-5	214-604-9	ND	0.050
偶氮[二]甲醯胺	123-77-3	204-650-8	ND	0.050
二氯二丁基錫*	683-18-1	211-670-0	ND	0.050
硫酸二乙酯	64-67-5	200-589-6	ND	0.050
鄰苯二甲酸二異戊酯	605-50-5	210-088-4	ND	0.050
硫酸二甲酯	77-78-1	201-058-1	ND	0.050
2-(1-甲基丙基)-4,6-二硝基苯酚 Dinoseb	88-85-7	201-861-7	ND	0.050
雙(十八酸基)二氧代三鉛*	12578-12-0	235-702-8	ND	0.005
C16-18-脂肪酸鉛鹽*	91031-62-8	292-966-7	ND	0.005
呋喃	110-00-9	203-727-3	ND	0.050
全氟十一酸	2058-94-8	218-165-4	ND	0.050
全氟十四酸	376-06-7	206-803-4	ND	0.050
六氫苯二甲酸酐 順式-六氫苯二甲酸酐 反式- 六氫苯二甲酸酐	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.050
甲基六氫苯酐, 4-甲基六氫苯酐 1-甲基六氫苯酐 3-甲基六氫苯酐	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	ND	0.050
四氟硼酸鉛(II) *	13814-96-5	237-486-0	ND	0.005
氨基氰鉛鹽*	20837-86-9	244-073-9	ND	0.005
硝酸鉛*	10099-74-8	233-245-9	ND	0.005
氧化鉛*	1317-36-8	215-267-0	ND	0.005
堿式硫酸鉛*	12036-76-9	234-853-7	ND	0.005
四氧化鉛*	1314-41-6	215-235-6	ND	0.005
鈦酸鉛*	12060-00-3	235-038-9	ND	0.005
鈦酸鉛鋯*	12626-81-2	235-727-4	ND	0.005

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No. 61, Kai-Fa Road, Nanzih Export Processing Zone , Kaohsiung, Taiwan /

台灣檢驗科技股份有限公司 t + 886 (07)301 2121 f + 886 (07)3010867 高雄市楠梓加工出口區開發路61號 www.tw.sgs.com



測試報告

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物質名稱	CAS No.	EC No.	濃度 (%)	RL (%)
甲氧基乙酸	625-45-6	210-894-6	ND	0.050
N,N-二甲基甲醯胺	68-12-2	200-679-5	ND	0.050
N-甲基乙醯胺	79-16-3	201-182-6	ND	0.050
鄰苯二甲酸正戊基異戊基酯	776297-69-9	-	ND	0.050
鄰氨基偶氮甲苯	97-56-3	202-591-2	ND	0.050
鄰甲苯胺	95-53-4	202-429-0	ND	0.050
全氟十三酸	72629-94-8	276-745-2	ND	0.050
氧化鉛與硫酸鉛的複合物*	12065-90-6	235-067-7	ND	0.005
環氧丙烷	75-56-9	200-879-2	ND	0.050
C.I.顏料黃 41 *	8012-00-8	232-382-1	ND	0.005
含鉛的矽酸鋇*	68784-75-8	272-271-5	ND	0.005
矽酸鉛*	11120-22-2	234-363-3	ND	0.005
亞硫酸鉛(Ⅱ) *	62229-08-7	263-467-1	ND	0.005
四乙基鉛*	78-00-2	201-075-4	ND	0.005
三鹼式硫酸鉛/ C.I. 顏料白*	12202-17-4	235-380-9	ND	0.005
全氟十二酸	307-55-1	206-203-2	ND	0.050
堿式碳酸鉛*	1319-46-6	215-290-6	ND	0.005
磷酸氧化鉛*	12141-20-7	235-252-2	ND	0.005

注釋:

- (1) RL = 報告極限值,所有 RL 是基於均一材質的測試。
- (2) ND = 未檢出(<RL), ND 針對高關注物質。
- (3) Δ 六溴環十二烷(HBCDD) 的非對映異構體 α-HBCDD、β-HBCDD、γ-HBCDD 的 CAS NO 分別為 134237-50-6 \ 134237-51-7 \ 134237-52-8 \
- (4) * 測試結果是由選定的元素或標記物的結果並基於最壞的情況計算得出。詳細資訊請參見 SGS REACH 網站: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm 建議客戶應審查其化學配方,以確定上述金屬物質是否存在於物品中。 RL = 0.005% 是針對元素 (例如硼、鈷、砷、鉛 、六價鉻 (VI) 和鋇)

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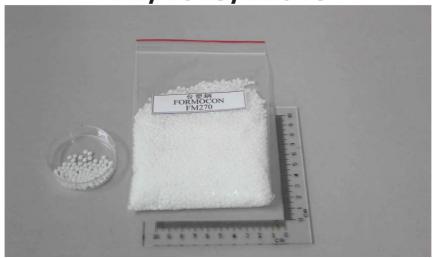
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