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測試報告 Test Report

號碼(No.) : KC/2015/A0119 日期(Date) : 2015/10/20 頁數(Page) : 1 of 6

興錦工業社

台中市后里區月湖路56號

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 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description)	: O型環
樣品型號(Style/Item No.)	: 17.5X1/黑色
收件日期(Sample Receiving Date)	: 2015/10/12
測試期間(Testing Period)	: 2015/10/12 TO 2015/10/20
送樣廠商(Sample Submitted By)	: 美利達工業股份有限公司 (MERIDA INDUSTRIAL CO., LTD.)

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

From NECO- O Ring Supplier



NECO TECHNOLOGY INDUSTRY CO., LTD.

Ray Chang
 Ray Chang, Ph.D. / Manager-Taiwan
 Signed for and on behalf of
 SGS Taiwan Limited
 Chemical Laboratory-Kaohsiung



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興錦工業社

台中市后里區月湖路56號

號碼(No.) : KC/2015/A0119 日期(Date) : 2015/10/20 頁數(Page) : 2 of 6

測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黑色 O型環 (BLACK O-RING)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鎘 / Cadmium (Cd)	mg/kg	參考CPSC-CH-E1002-08方法檢測。 / As per CPSC-CH-E1002-08 method.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考CPSC-CH-E1002-08方法檢測。 / As per CPSC-CH-E1002-08 method.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考CPSC-CH-E1002-08方法檢測。 / As per CPSC-CH-E1002-08 method.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考US EPA 3060A方法, 用UV-VIS (US EPA 7196A) 檢測六價鉻含量。 / With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV-Vis Spectrometry.	2	n.d.
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	參考RSTS-HL-229-1方法, 以超高效能液相層析串聯質譜儀檢測。 / With reference to RSTS-HL-229-1 method. Analysis was performed by UPLC-MSMS.	1	n.d.
福馬林 (甲醛) / Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1方法, 以高效液相層析儀 / 二極體陣列偵測器檢測。 / With reference to ISO 17226-1. Analysis was performed by HPLC/DAD.	3	n.d.
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測。 / Analysis was performed by FTIR and FLAME Test.	-	Negative

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台房檢驗科技股份有限公司 | t + 886 (07)301 2121 | f + 886 (07)3010867 | www.tw.sgs.com

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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 (MDL)	結果 (Result)
				NO.1
烷基苯酚聚乙氧基醇 / Alkyl Phenol Ethoxylates (APEO)				
辛基苯酚聚氧乙烯醚 / Octyl Phenol Ethoxylates (OPEO)	mg/kg	參考US EPA 3550C方法, 以液相層析質譜儀分析. / With reference to US EPA 3550C method. Analysis was performed by LC/MS.	5	n.d.
壬基苯酚聚氧乙烯醚 / Nonyl Phenol Ethoxylates (NPEO)			5	n.d.
有機錫 / Organic-tin compounds				
三丁基錫 / Tributyl Tin (TBT)	mg/kg	本測試參考ISO 17353: 2004方法, 以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353: 2004. Analysis was performed by GC/FPD.	0.03	n.d.
三苯基錫 / Triphenyl Tin (TphT)			0.03	n.d.
單丁基錫 / Monobutyl Tin (MBT)			0.03	n.d.
單辛基錫 / Mono-octyl Tin (MOT)			0.03	n.d.
四丁基錫 / Tetrabutyltin (TeBT)			0.03	n.d.
二丁基錫 / Dibutyl Tin (DET)			0.03	n.d.
二辛基錫 / Dioctyl Tin (DOT)			0.03	n.d.
可塑劑定量分析 / Phthalates				
鄰苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No.: 84-66-2)	%	參考CPSC-CH-C1001-09.3方法檢測, 以氣相層析質譜儀(GC/MS)檢測. / With reference to CPSC-CH-C1001-09.3. Analysis was performed by GC/MS	0.015	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)			0.015	n.d.
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)			0.015	n.d.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl benzyl phthalate) (CAS No.: 85-68-7)			0.015	n.d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)			0.015	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)			0.015	n.d.

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SGS Taiwan Ltd
台灣檢驗科技股份有限公司

No. 61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan /
t + 886 (07)301 2121

高雄橋梓加工出口區開發路61號
www.tw.sgs.com

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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 (MDL)	結果 (Result)
				NO.1
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1)			0.015	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0)			0.015	n.d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)			0.015	n.d.
鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)			0.015	n.d.
鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)			0.015	n.d.
鄰苯二甲酸二(C6-8支鏈與直鏈)烷基酯, 富C7 / DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	%	參考CPSC-CH-C1001-09.3方法檢測, 以氣相層析質譜儀(GC/MS)檢測。 / With reference to CPSC-CH-C1001-09.3. Analysis was performed by GC/MS	0.015	n.d.
鄰苯二甲酸二(2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)			0.015	n.d.
鄰苯二甲酸二異戊酯 / DIPP (Diisopentyl Phthalat) (CAS No.: 605-50-5)			0.015	n.d.
鄰苯二甲酸正戊基異戊基酯 / nPiPP (N-pentyl-isopentylphthalate) (CAS No.: 776297-69-9)			0.015	n.d.
鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131-18-0)			0.015	n.d.
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)			0.015	n.d.

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

No. 81, Kai Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan /
1 + 886 (07)301 2121

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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)
5. 油漆(Paint): 600mg/kg before 2009.08.14
90mg/kg after 2009.08.13
非油漆(Non-paint): 600mg/kg in 2009.02.10 ~ 2009.08.13
300mg/kg in 2009.08.14 ~ 2011.08.13
100mg/kg after 2011.08.13
使用於腳踏車中或相關之金屬產品(Metal in bicycle and related products): 300 mg/kg after 2012.01.01
6. 依據法案 Pub. L. No.110-314(HR 4040), 第108條, 禁止銷售某些含有特定鄰苯二甲酸酯的產品:
 - a. 兒童玩具或兒童護理產品中, 含有濃度超過百分之0.1的DEHP、DBP或BBP
 - b. 可放入兒童口中的兒童玩具或兒童護理產品, 含有濃度超過百分之0.1的DINP、DIDP或DNOP(According to Pub. L. No.110-314(HR 4040), , sec. 108, Prohibition on sale of certain products containing specified phthalate:
 - a. Children's toy or child care article that contains concentrations of more than 0.1% of DEHP, DBP, or BBP
 - b. Children's toy that can be placed in a child's mouth or child care article that contains concentrations of more than 0.1% DINP, DIDP, or DNOP)
7. **= Qualitative analysis (No Unit) 定性分析(無單位)
8. 聚氯乙烯(PVC): Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
9. 聚氯乙烯測試由SGS其他實驗室執行 (The PVC test was subcontracted to other SGS Laboratory.)

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No. 81, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan /
t + 886 (07)301 2121

高雄市楠梓加工出口區開發路81號
f + 886 (07)3010867
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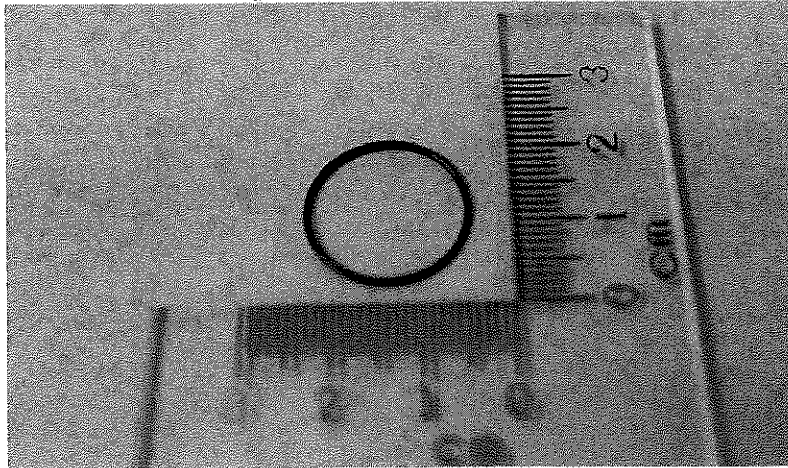
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

KC/2015/A0119



** 報告結尾(End of Report) **

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No. 81, Kaifu Road, Nanzih Expert Processing Zone, Kaohsiung, Taiwan /
t + 886 (07)301 2121

t + 886 (07)3010867

高雄市楠梓加工出口區開發路81號
www.tw.sgs.com

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測試報告 Test Report

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集盛實業股份有限公司
ZIG SHENG INDUSTRIAL CO., LTD.
台北市大同區西寧北路70號2樓
2F., NO. 70, SINING N. RD., DATONG DISTRICT, TAIPEI CITY 103, TAIWAN

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) : 集盛實業股份有限公司 (ZIG SHENG INDUSTRIAL CO., LTD.)
 樣品名稱(Sample Description) : 尼龍複合材料--本色及黑色 ZISLLOY NYLON COMPOUND- NATURAL AND BLACK
 樣品型號(Style/Item No.) : APR20, BPR20/40, CPR20, APG10/15/20/30/40, BPC45, BPG10/20/30/40, SPG40, AE540, AF540, AFG10/13/15/20/25/30/33/40/45/50/60, AFN01/02/03/04/05/06, AGB15/20, AH140, AHG15/30/33/45, ATE10/13/25/30/45/50/55/65/70/90, ATG30, AWB30, AX304/801, BE115/125/120/130, BF120/130/140/160, BF101/201/111/211/221/291, BFB30, BFG10/15/20/30/33/35/40/45/50/60, BFM20/30/40, BFN01/03, BH140, BL110/115/120, BMG30/35/40/45, BTC30/40/50, BTE10/15/25/30/35/45/50/65/70/80/90, BTG07/15/25/30/35/40/45, BTQ30/50/80, BW160, BX153/200/204/290/301/509/631/914, CF140, CFG10/15/30/33/35/45/50, CGB40, CMG40, CTE15/45/50/65, CTG15/30/45/50, CTQ80, DFB15/30, DFG30/33/45, DGB20/30/40, DTE80/90, DWB30, DX250/302/309, FEC30, FES40, FFB15/30, FFG10/15/30/45, FGB20/30/40, GA140, HFG30/50, HFBV30/50, PFG20/30/35/40, PFT03/10/20/30/40, STC40, TFG20/30/40/45/50, TFM20/30/40, TMG25, EFG10/20/30/33/35/45/50

收件日期(Sample Receiving Date) : 2015/07/14
 測試期間(Testing Period) : 2015/07/14 TO 2015/07/21

測試方法(Test Method) : 參照SGS內部方法RSTS-EE-SVHC-007. 以感應耦合電漿原子發射光譜儀、氣相層析/質譜儀、氣相層析儀/火焰光度偵測器進行分析。(SGS In-House method-RSTS-EE-SVHC-007. Analyzed by ICP-AES, GC/MS, GC/FPD.)

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

Troy Chang, Manager - Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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集盛實業股份有限公司
 ZIG SHENG INDUSTRIAL CO., LTD.
 台北市大同區西寧北路70號2樓
 2F., NO. 70, SINING N. RD., DATONG DISTRICT, TAIPEI CITY 103, TAIWAN



測試樣品(Test Sample):

測試部位(PART NAME) No. 1 : 混測黑色及白色塑膠粒 (MIXED BLAK AND WHITE PLASTIC PELLETS)

測試結果 (Test Results) (單位Unit: %)

物質名稱 (Substance Name)	報告 極限值 (RL)	結果 (Result)	分類 (Classification)
		No. 1	
2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑 (紫外線吸收劑328) / 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No. : 25973-55-1)	0.05	n. d.	vPvB & PBT
2-[2'-羥基-3',5'-二-叔-丁基苯基]-苯並三唑 (紫外線吸收劑320) / 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No. : 3846-71-7)	0.05	n. d.	vPvB & PBT
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	0.05	n. d.	TRC 1B
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Bis (2-ethyl(hexyl) phthalate)) (CAS No. : 117-81-7)	0.05	n. d.	EQC
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	0.05	n. d.	TRC 1B
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	0.05	n. d.	TRC 1B
氟化鎘 / Cadmium fluoride*** (CAS No. : 7790-79-6)	-	n. d.	CC 1B; MC 1B; TRC 1B; EQC
硫酸鎘 / Cadmium sulphate*** (CAS No. : 10124-36-4; 31119-53-6)	-	n. d.	CC 1B; MC 1B; TRC 1B; EQC
二正辛基-雙(2-乙基己基巯基乙酸酯)錫 / 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*** (CAS No. : 15571-58-1)	-	n. d.	TRC 1B
二正辛基-雙(2-乙基己基巯基乙酸酯)錫和單辛基-三(2-乙基己基巯基乙酸酯)錫的反應物 / Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)***	-	n. d.	TRC 1B

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測試報告

Test Report

號碼(No.): CR/2015/70082

日期(Date): 2015/07/21

頁數(Page): 3 of 5

集盛實業股份有限公司

ZIG SHENG INDUSTRIAL CO., LTD.

台北市大同區西寧北路70號2樓

2F., NO. 70, SINING N. RD., DATONG DISTRICT, TAIPEI CITY 103, TAIWAN



物質名稱 (Substance Name)	報告 極限值 (RL)	結果 (Result)	分類 (Classification)
		No. 1	
鄰苯二甲酸二(C6-10)烷基酯; 鄰苯二甲酸二己、二辛、二癸酯混合物; 鄰苯二甲酸二己酯 ≥ 0.3% / 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS No.: 68515-51-5; 68648-93-1)	0.05	n. d.	TRC IB
5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷 [1], 5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷 [2], [任何[1]和[2]或者其任意組合的單獨異構物或其任何組合] / 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	0.05	n. d.	vPvB

備註(Note):

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n. d. = not detected = below Reporting Limit / 未檢出
3. RL = Reporting Limit / 報告極限值
4. 分類/Classification: Please refer to http://twap.sgs.com/sgrsts/chn/download-REACH_tw.asp
5. ***: 該物質是由二辛基錫, 單辛基錫或各別元素 (例如: 鎘)之測試結果計算得知。

(The substance was calculated by the test result of Dioctyl Tin, MonoctylTin or element (Ex. Cadmium) respectively.)

測試結果如下(The test result is given as):

物質名稱 (Substance Name)	報告 極限值 (RL)(%)	結果 (Result)
		No. 1
鎘 / Cadmium (Cd) (CAS No.: 7440-43-9)	0.005	n. d.
二辛基錫 / Dioctyl Tin (DOT)	0.0230	n. d.
單辛基錫 / MonoctylTin (MOT)	0.0138	n. d.

6. F 參數換算表/F Parameter Conversion Table: Please refer to http://twap.sgs.com/sgrsts/chn/download-REACH_tw.asp

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台北市大同區西寧北路70號2樓

2F., NO. 70, SINING N. RD., DATONG DISTRICT, TAIPEI CITY 103, TAIWAN



7. 樣品的測試是基於申請人要求混合數個成品進行測試，但報告中混合測試的結果不代表其中單一成品的含量。 / The mixed test with a couple of articles was implemented according to the applicant's request. Even though the test result "n.d." (Not Detected) for the submitted articles is obtained, but the obtained test result doesn't stand for the test result of the respective articles. Therefore the conclusion can't be made for a mixed test.

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集盛實業股份有限公司

ZIG SHENG INDUSTRIAL CO., LTD.

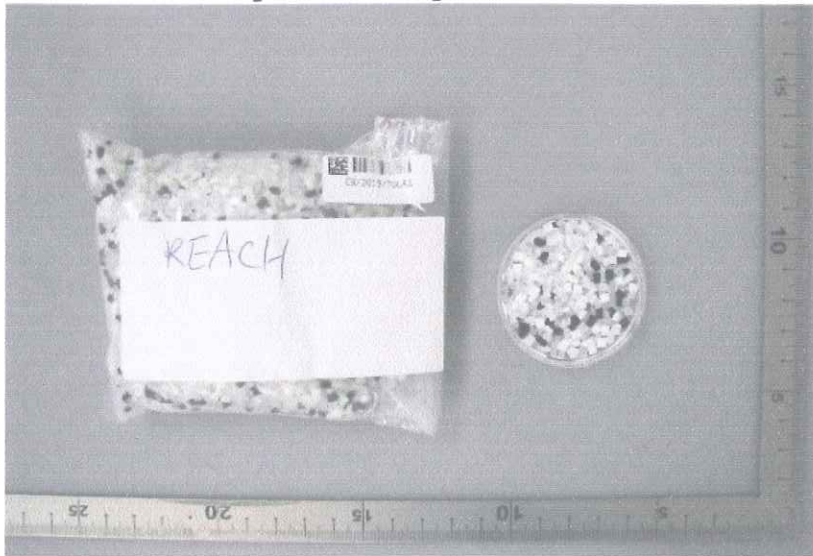
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CR/2015/70082



** 報告結尾(End of Report) **

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ZISUOY

(斜管)



集盛實業股份有限公司

台北總公司：台北市大同區西寧北路70號2樓

複材廠：桃園縣觀音工業區成功路一段522號

ZIG SHENG INDUSTRIAL CO., LTD.

HEAD OFFICE: 2FL. No.70 HSINING N. RD., TAIPEI, TAIWAN

TEL:886-2-25557151 FAX:886-2-25590101

COMPOUNDING PLANT: No.522 CHERNGONG RD. Sec.1

KUANYIN IND. DISTRICT, TAOYAN, TAIWAN

TEL:886-3-4832267 FAX:886-3-4837594

品質證明
Certificate of Analysis

規格 Grade	批號 Lot.	製造日期 Date of manufacturing
AFG30-FN03N1	38A62	2013/8/6

成品檢驗 Final Product Inspection			測試標準 / 管制界限			測試值 Test value
檢驗項目	Inspection Items	Unit	Standard	UL	LL	
水份 (%)	Moisture Content	%	ISO 15512	0.10	--	0.07
比重	Density 23 °C	g/cm ³	ISO 1183	1.40	1.38	1.39
熔融指數	MVR(275°C/5kg)	cm ³ /10min	ISO 1133	35.0	20.0	25.0
灰份	Ash Content@750 °C	--	ISO 3451	34.5	32.5	33.6
色板黃度值	Yellowness (Plate)	--	ASTM D1925	5.00	--	3.62
備註 Remark						

核准 Approved By	主管 Reviewed By	製表 Prepared By
陳淑敏	楊物印	陳思廷



Material Safety Data Sheet

ZISLLOY AFG30 NYLON66 RESIN

Revision date : 2008/08/16

Version: 1.0

Page: 1/6

1. Product and company identification

PRODUCT NAME: ZISLLOY AFG30

SUPPLIER: ZIG SHENG INDUSTRIAL CO.,LTD

ADDRESS: No.11-1, Dongwanshou Rd., Gueishan Township, Taoyuan County
333,Taiwan

Telephone Number: 886-3-3295267 ext.161

Telefax Number: 886-3-3295270

E-mail: steven_h@zigsheng.com

2. Composition/information on ingredients

Chemical nature: Product based on Polyamide 66.
Usually contains lubricants and protectors.
Reinforced product containing 10 to 60% glass fiber or mineral filler.
Toughen product which are modified by 5% to 25% elastomer.

CAS Number Content (W/W) 32131-17-2 \geq 65.0 % polyamide 66 (PA 66)

Chemical name 65997-17-3 \leq 35.0 % Fiber Glass, anti-oxides, Lubricants

3. Hazards identification

Most Important Hazards:

Adverse human health effects:

Physical and chemical hazards:

-Further hazards Does not present any specific hazards, provide it is handled in accordance with the supplier's proposed method of use.



Material Safety Data Sheet

ZISLLOY AFG30 NYLON66 RESIN

Revision date : 2008/08/16

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4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Assist in breathing if necessary. Keep patient calm, remove to fresh air. Consult a physician.

If on skin:

Burns caused by molten material require hospital treatment.

If in eyes:

If irritation develops, seek medical attention. In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

If swallowed:

Ingestion is not likely in the available physical form. If ingested, seek medical attention.

5. Fire-fighting measures

Auto-ignition:

> 400 °C (ASTM D1929)

Suitable extinguishing media:

water, foam, dry extinguishing media

Hazards during fire-fighting:

carbon monoxide, hydrogen cyanide, can be emitted at > 300 °C

Formation of further decomposition and oxidation products depends upon the fire conditions. Under special fire conditions traces of other toxic substances are possible.

Protection of fire-fighters:

Self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions

Prevent the product from spreading into the environment.

Environmental precautions:

This product does not present any particular risk for the environment.

Methods for cleaning up:

-Recovery:

Recover the product by vacuuming/shoveling or sweeping.

-Cleaning:

Sweep.



Material Safety Data Sheet

ZISLLOY AFG30 NYLON66 RESIN

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7. Handling and storage

Handling

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

General advice:

Keep container tightly closed. Avoid deposition of dust.

Storage conditions:

Away from any flames.

Protected from humidity and bad weather conditions.

Packaging

The product is packaged in suitable recycled packaging.

-Paper bag lined with a plastic film.

8. Exposure controls and personal protection

Exposure controls

The product, as it, does not require any specific/particular measures provided it is handled in accordance with good industrial hygiene and safety practice.

During the transformation process:

Extraction to move vapours at their source.

Personal protective equipment:

-Skin and body protection:

No specific/particular action required for this product. Comply with good occupational hygiene practice.

Further information:

The product or during its use, does not produce dust.

The different components and fillers are incorporated in the bulk of the polymer.



Material Safety Data Sheet

ZISLLOY AFG30 NYLON66 RESIN

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9. Physical and chemical properties

Appearance:

-Physical state

Solid

-Form

Pellets

-Density

1.30 - 1.40 g/cm³

-Bulk density:

600 - 700 kg/m³

-Colour

Depends on the pigment

Odour:

None to very slight.

pH:

Not applicable

Specific temperatures:

-Melting:

Melting range: 250 to 270°C

Decomposition temperature:

>350°C

Flammability characteristics:

-Flash point:

>400°C (closed cup)

-Auto-ignition temperature:

>350°C (Spontaneous ignition temperature)

Solubility:

-in water:

Practically insoluble

-in organic solvents:

Insoluble in common organic solvents

10. Stability and reactivity

Stability:

Stable under normal conditions of use

Hazardous reactions:

-Conditions to avoid:

No dangerous reactions known under normal conditions of use.

-Decomposition products:

Hazardous decomposition products: carbon monoxide, hydrogen cyanide

Thermal decomposition:

>300°C

11. Toxicological information

Chronic toxicity

—

Further information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.



Material Safety Data Sheet

ZISLLOY AFG30 NYLON66 RESIN

Revision date : 2008/08/16

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12. Ecological information

Biodegradation:

Evaluation: Experience shows this product to be inert and non-degradable.

Bioaccumulation:

The product will not be readily bioavailable due to its consistency and insolubility in water. Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

Destination of the product:

Ultimate destination of the product : SOIL

13. Disposal considerations

Waste disposal of substance:

Recycle the material as far as possible.

May be disposed of or combusted with domestic refuse according to local regulations.

Container disposal:

Packs must be completely emptied. Completely emptied packagings can be given for recycling.

14. Transport information

International regulations:

-Land(Rail/Road):

NOT restricted.

-Marine

NOT restricted.

-Air

NOT restricted.

NOTE:

The above regulatory prescriptions are those valid on the date of publication of this sheet.

Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.



Material Safety Data Sheet

ZISLLOY AFG30 NYLON66 RESIN

Revision date : 2008/08/16

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15. Regulatory information

Labelling:

EEC regulations:

Mandatory labeling (self-classification) of hazardous preparations:
Not applicable.

NOTE:

The Regulatory information given above only indicates the principal regulations specifically applicable to the product described in this Safety Data Sheet.

The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information

Uses:

-Recommended uses:

Manufacture of articles by injection and extrusion.

-Prohibited uses:

For special application e.g. in medicine, surgery or the food industry, obtain further information from the manufacturer.

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