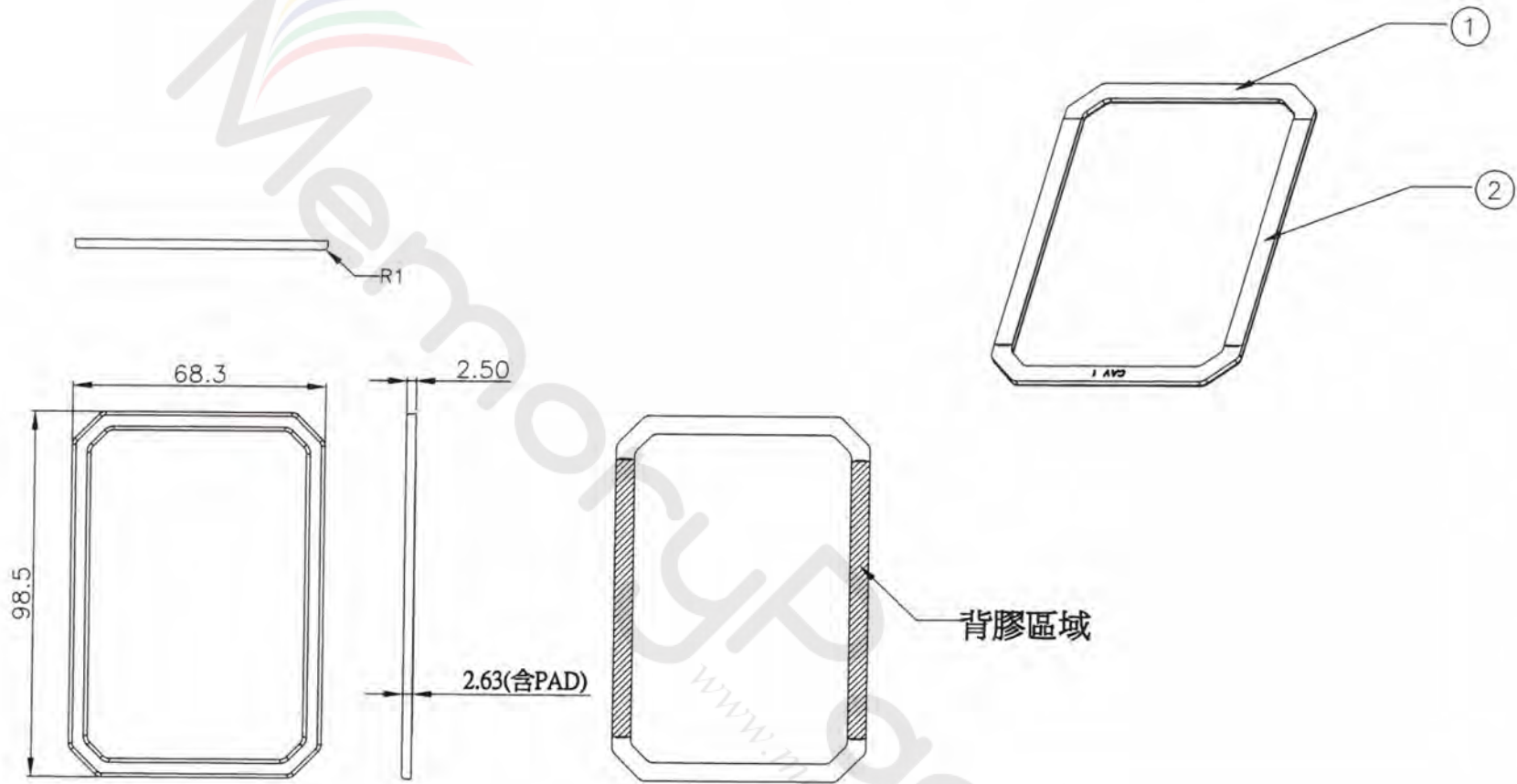


Version	Date	Description	DRW
△	2014/01/14	First issue	Anderson



ITEM NO.	零件編號 PART NO.	零件名稱 PART NAME	數量 Q'ty	材質 MATERIAL	規格 SPEC	備註 NOTES
2	1193100018	PAD	2	S 5760		USE IN COMMON CT4130124-02
1	313190014	KHX 7mm SSD External Frame	1	ABS 757	BLACK	

NOTE:
1.RoHS, PFOS/PFOA Compliant
2.Other tolerance place refer to the tolerance list

* 表達料檢驗尺寸
Inspection of IQC

繪圖: DRW Anderson	投影 PROJECTION 第一角	公差表: NORMAL TOLERANCES: Angular: ±1° X: ±0.5 X.X: ±0.30 X.XX: ±0.15	零件名稱: PART NAME KHX 7mm SSD External Frame-ASM	圖號 D/N	
審核: CKD Houard	比例 SCALE 1:1	單位 UNIT mm	料號 P/N		
承認: APPD River					

BOM

Product name: 7mm SSD External Frame

Product NO.: 4130125

NO.	Product name	Spec(mm)	Product No.	Drawing No.	Qty.	Remark
1	SSD MIC 塑膠墊蓋	68.3*98.8*2.50	313190014	CT4130125-01	1	
2	PAD	4.6*75*0.13	1193270018	CT4130124-02	2	
3						
4						
5						
6						
7						

www.memorypack.com.tw



奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號。 電話：886-6-266-5000, 傳真：886-6-266-5555~7

1/2(A-GHE)

物質安全資料表

VIW

1. 物品及廠商資料

產品名稱	Polylac [®]	PA-707	PA-757	PA-757N	PA-717C	PA-727	PA-747	PA-709
製造商	奇美實業股份有限公司							
地址	台灣省台南縣仁德鄉三甲村 59-1 號							
電話	886-6-2663000 Ext.1361 (產品推廣課)							
緊急電話	886-6-2663000 Ext.1361 (產品推廣課)							
傳真電話	886-6-2667981							

2. 成品辨識資料

單一產品或混合物	單一產品
化學名稱	Acrylonitrile-Butadiene-Styrene Copolymer
含量	>98% (添加劑≤2%)
化學式	(C ₃ H ₃ N, C ₄ H ₆ , C ₈ H ₈) _x
CAS No.	9003-56-9
危害性不純物	無

3. 危害性分類

健康危害效應	無
環境影響	無
物理性及化學性危害	無
特殊危害	無

4. 急救措施

吸入	若吸入熔融樹脂逸出之氣體，將患者移至通風處，立即送醫。
皮膚接觸	若接觸到塑膠粒或塑膠粉末，以清水沖洗。 若接觸到熔膠，以大量(肥皂)水沖洗患部及衣物，立即送醫。
眼睛接觸	若接觸到塑膠粒或塑膠粉末，以大量清水至少沖洗 15 分鐘。 若有不適，立即送醫。 若接觸到高溫熔融樹脂逸出之氣體，以大量清水至少沖洗 15 分鐘。 若有不適，立即送醫。
吞食	催吐，以清水漱口，若有不適，立即送醫。

5. 消防措施

適用滅火劑	水、泡沫、乾粉
滅火時可能遭遇之特殊危害	無
特殊滅火程序	移除可燃物
消防人員之特殊防護設備	使用供氧式呼吸防護具

6. 洩漏處理方法

個人應注意事項	若塑膠粒或塑膠粉末殘留於地面上，可能會導致人員滑倒。
環境注意事項	為防止鳥類或魚類由排水系統中攝食，須徹底回收
清理方法	回收或廢棄

7. 安全處置與儲存方法

處置	操作處所須嚴禁煙火，做好整理整頓以避免粉塵累積。為防止塵爆，空氣輸送管路、袋濾器及儲槽須加裝靜電消除裝置，並確實接地。袋濾器之濾材採導電性材質。
儲存	存放於陰涼處所，避免直射陽光、雨淋及急遽之溫差。儲存處嚴禁煙火



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2/2(A-GHE)

8. 暴露預防措施

容許濃度(TLV)	未定
通風設備	排除粉塵、煙及氣體時使用
個人防護設備	呼吸防護 清洗成型機時使用防毒面具。 手部防護 接觸熔膠時使用皮手套。 眼睛防護 平時使用安全眼鏡，清洗成型機時使用護目鏡

9. 物理及化學性質

物質狀態	米白色膠粒
形狀	粒狀
顏色	米白色
氣味	無
閃火點	404 °C
自燃溫度	466 °C
爆炸界限	45 g/m ³
最小著火能量	3.6 mJ
最大爆炸壓力	7 × 10 ⁵ Pa
最大壓力上升速度	3.2 × 10 ⁷ Pa/S
比重	1.03~1.10
溶解度	無

10. 安定性及反應性

安定性	依一般操作及儲存程序時，安定性佳。
危害性分解物	CO, HCN, AN, SM and NO
燃燒能量	3.53 × 10 ⁷ J/kg (8424 Kcal/kg)

11. 毒性資料

刺激性	分解後之塑膠所產生的煙及蒸氣會刺激眼睛。
-----	----------------------

12. 生態資料

為防止被海洋生物或鳥類攝食，嚴禁丟棄至海洋或水域。

13. 廢棄物處理

適當之焚化爐燃燒或掩埋法。不適當之焚化爐可能會產生有毒氣體如 CO, HCN, AN and SM.

14. 運送資料

未分類

15. 法規資料

無

16. 其他資料

無

CHI MEI CORPORATION

59-1 SAN CHIA, JEN TE, TAINAN HSIEN 717 TW

PA-757(+)**Acrylonitrile Butadiene Styrene (ABS), "Polylac", furnished as pellets**

	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HAI	Elec	Imp	Str
ALL	1.57	HB	4	0	85	80	85
	3.17	HB	3	0	85	80	85

Comparative Tracking Index (CTI): **0**

Dimensional Stability (%): -

High-Voltage Arc Tracking Rate (HVTR): **1**High Volt, Low Current Arc Resis (D495): **1**

Dielectric Strength (kV/mm): -

Volume Resistivity (10xohm-cm): -

(+) - Optional prefix or suffix may be used to denote 0-0.5% acid scavengers.

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

Report Date: 1983-06-23

Last Revised: 2007-09-20

Bulletin

We, CHI MEI CORPORATION, to the best of our knowledge hereby certify that the resins listed below (hereinafter referred as “products”) as directly manufactured by us

- POLYLAC® ABS (J01)** PA-705, PA-707, PA-757, PA-757N, PA-717C, PA-726, PA-726M, PA-727, PA-747, PA-709, PA-797, PA-756, PA-756S, PA-756H, PA-716, PA-746, PA-746H, PA-737, PA-747H, PA-747R, PA-747F, PA-747S, PA-709A, PA-709S, PA-709P, PA-709K, PA-709H, PA-797S, PA-777B, PA-777D, PA-777E, PA-758, PA-758R, PA-757G J08, PA-718, PA-746Y, PA-763, PA-764, PA-764B, PA-765, PA-765A, PA-765B, PA-757 A01, PA-747SA01, PA-747SJ01, PA-749, PA-749S, PA-77BS, PA-77DS, PA-757E, PA-777C
 (J01) - The suffix may be used to denote the black color grade manufactured from Chi Mei Corp.
- KIBISAN® SAN** PN-106, PN-107, PN-117, PN-117C, PN-127, PN-127H, PN-137H
- POLYREX® PS** PG-22, PG-33, PG-80N, PG-80, PG-383, PG-383D, PH-55Y, PH-60, PH-88, PH-888H, PH-888G, PH-88S, PH-88SE, PH-875, PH-875A
- ACRYREX® PMMA** CM-203, CM-205, CM-205G, CM-205N, CM-207, CM-207G, CM-211
- ACRYSTEX® SMMA** PM-600, PM-500
- WONDERLITE® PC** PC-108(U), PC-110(U) , PC-110D, PC-110L, PC-110V, PC-115(U), PC-122(U), PC-175
- WONDERLOY® PC/ABS Alloy** PC-345, PC-345P, PC-365, PC-365H, PC-385, PC-510, PC-540, PC-540H, PC-6015, PC-6110, PC-6410, PC-6500, PC-6510, PC-6520, PC-6600, PC-6610, PC-6620, PC-6700, PC-6701, PC-6710, EG-8410, EG-8420, EG-8430
- KIBITON® TPE** PB-575, PB-585, PB-511, PB-5300, PB-5301, PB-5302, PB-5308, PB-5502
- KIBITON® Q-resin** PB-5903, PB-5910, PB-5925, PB-5900, PB-5630, PB-5906
- KIBIPOL® LBR/SSBR/HBR** PR-245, PR-255, PR-1205, PR-040, PR-040S, PR-040G, PR-040C
- ACRYPOLY®** CM-205X, CM-205B
- KIBILITE®** DC-553F, DC-603F, DS-553A, DS-603A, DS-743B, DM-553B, DC-552F, DC-552G, DS-653A, DS-553C, DS-603C, DS-653C, DS-753B, DM-000B, DS-903A, DS-943A, DS-943B, DS-903E, DS-963E, DS-943G, DS-963G, DS-903H, DS-943H, DS-943I, DS-553H, DS-601A, DS-551A
- KIBILAC®** PW-957, PW-978B, PW-997S, PW-997

conform to the below requirement of SVHC 151 substances.

Substance Name	CAS No.	EC number	Substance Name	CAS No.	EC number
Cadmium	7440-43-9	231-152-8	4-Nonylphenol, branched and linear, ethoxylated [<i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i>]		
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4			
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9			
Dipentyl phthalate (DPP)	131-18-0	205-017-9			
Cadmium oxide	1306-19-0	215-146-2			
Triethyl arsenate	15606-95-8	427-700-2	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0
Anthracene	120-12-7	204-371-1	Hexabromocyclododecane (HBCDD) and	25637-99-4	247-148-4

The above statement is based on our current level of knowledge and covers the above products directly manufactured and supplied by CHI MEI CORPORATION at the date of issue. CHI MEI CORPORATION makes no warranties, whether express or implied, and assumes no liability in connection with any use of above information. Notwithstanding the foregoing, CHI MEI CORPORATION shall in no event be held obligated or liable for any claims due to or arising from (i) any customer provided, consigned, materials and/or parts, which are incorporated or adopted in the products; (ii) any combination of the products with material not provided or authorized by our company; (iii) any modifications to the products which are made or directed by customer; (iv) our compliance with the specifications, instructions, and/or designs provided by customer; (v) any anti-trust, unfair competition and/or other unlawful actions effected by customer; or (vi) any defects, infringement, breach and/or violation which are arising out of customer’s faults or otherwise not solely and directly attributable to CHI MEI CORPORATION. In no event will CHI MEI CORPORATION be liable for any indirect, special, exemplary, punitive, or consequential damages (including lost profits) of any nature whatsoever whether arising out of the purchase, shipment, unloading, handling, or use of any product or otherwise.

4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	and 3194-55-6 (134237-50-6)	and 221-695-9
Dibutyl phthalate (DBP)	84-74-2	201-557-4) (134237-51-7)	—
Cobalt dichloride	7646-79-9	231-589-4) (134237-52-8)	—
Diarsenic pentaoxide	1303-28-2	215-116-9	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
Diarsenic trioxide	1327-53-3	215-481-4	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
Sodium dichromate	7789-12-0	234-190-3	Lead hydrogen arsenate	7784-40-9	232-064-2
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
Anthracene oil	90640-80-5	292-602-7	Zirconia Aluminosilicate, Refractory Ceramic Fibres	—	—
Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	2,4-Dinitrotoluene	121-14-2	204-450-0
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Diisobutyl phthalate	84-69-5	201-553-2
Anthracene oil, anthracene-low	90640-82-7	292-604-8	Lead chromate	7758-97-6	231-846-0
Anthracene oil, anthracene paste	90640-81-6	292-603-2	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9
Coal tar pitch, high temp.	65996-93-2	266-028-2	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
Acrylamide	79-06-1	201-173-7	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
Aluminosilicate Refractory Ceramic Fibres	—	—			
Ammonium dichromate	7789-09-5	232-143-1	Potassium dichromate	7778-50-9	231-906-6
Boric acid	10043-35-3 (1113-50-1)	233-139-2 (234-343-4)	Sodium chromate	7775-11-3	231-889-5
Disodium tetraborate, anhydrous	1330-43-4	215-540-4	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
Potassium chromate	7789-00-6	232-140-5	Trichloroethylene	79-01-6	201-167-4
Cobalt(II) sulphate	10124-43-3	233-334-2	Chromium trioxide	1333-82-0	215-607-8
Cobalt(II) dinitrate	10141-05-6	233-402-1	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5
Cobalt(II) carbonate	513-79-1	208-169-4			
Cobalt(II) diacetate	71-48-7	200-755-8	Oligomers of chromic acid and dichromic acid		
2-Methoxyethanol	109-86-4	203-713-7			
2-Ethoxyethanol	110-80-5	203-804-1	1-Methyl-2-pyrrolidone	872-50-4	212-828-1
2-Ethoxyethyl acetate	111-15-9	203-839-2	1, 2, 3-Trichloropropane	96-18-4	202-486-1
Strontium chromate	7789-06-2	232-142-6	1, 2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
1, 2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6			
Hydrazine	302-01-2 (7803-57-8)	206-114-9			
Calcium arsenate	7778-44-1	231-904-5	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
Lead dipicrate	6477-64-1	229-335-2	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6

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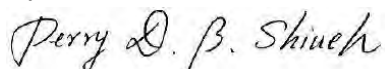
N,N-dimethylacetamide	127-19-5	204-826-4	Lead diazide, Lead azide	13424-46-9	236-542-1
Arsenic acid	7778-39-4	231-901-9	Lead styphnate	15245-44-0	239-290-0
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
Trilead diarsenate	3687-31-8	222-979-5	Phenolphthalein	77-09-8	201-004-7
1,2-dichloroethane	107-06-2	203-458-1	Dichromium tris(chromate)	24613-89-6	246-356-2
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	Formamide	75-12-7	200-842-0
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	423-400-0	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
Diboron trioxide	1303-86-2	215-125-8	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2			
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
Henicosfluoroundecanoic acid	2058-94-8	218-165-4	Hexahydromethylphthalic anhydride	25550-51-0	247-094-1
Cyclohexane-1,2-dicarboxylic anhydride	85-42-7	201-604-9	Hexahydro-4-methylphthalic anhydride	19438-60-9	243-072-0
cis-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3	236-086-3	Hexahydro-1-methylphthalic anhydride	48122-14-1	256-356-4
trans-cyclohexane-1,2-dicarboxylic anhydride	14166-21-3	238-009-9	Hexahydro-3-methylphthalic anhydride	57110-29-9	260-566-1
Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
Lead dinitrate	10099-74-8	233-245-9	Silicic acid, lead salt	11120-22-2	234-363-3
4-Aminoazobenzene	60-09-3	200-453-6	Lead titanium zirconium oxide	12626-81-2	235-727-4
Lead monoxide (lead oxide)	1317-36-8	215-267-0	o-Toluidine	95-53-4	202-429-0
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8	272-271-5
Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	Furan	110-00-9	203-727-3
N,N-dimethylformamide	68-12-2	200-679-5	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	—	—
4-Nonylphenol, branched and linear	—	—	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
Diethyl sulphate	64-67-5	200-589-6	Dimethyl sulphate	77-78-1	201-058-1
Lead oxide sulfate	12036-76-9	234-853-7	Lead titanium trioxide	12060-00-3	235-038-9
Acetic acid, lead salt, basic	51404-69-4	257-175-3	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	N-methylacetamide	79-16-3	201-182-6
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	1,2-Diethoxyethane	629-14-1	211-076-1

The above statement is based on our current level of knowledge and covers the above products directly manufactured and supplied by CHI MEI CORPORATION at the date of issue. CHI MEI CORPORATION makes no warranties, whether express or implied, and assumes no liability in connection with any use of above information. Notwithstanding the foregoing, CHI MEI CORPORATION shall in no event be held obligated or liable for any claims due to or arising from (i) any customer provided, consigned, materials and/or parts, which are incorporated or adopted in the products; (ii) any combination of the products with material not provided or authorized by our company; (iii) any modifications to the products which are made or directed by customer; (iv) our compliance with the specifications, instructions, and/or designs provided by customer; (v) any anti-trust, unfair competition and/or other unlawful actions effected by customer; or (vi) any defects, infringement, breach and/or violation which are arising out of customer's faults or otherwise not solely and directly attributable to CHI MEI CORPORATION. In no event will CHI MEI CORPORATION be liable for any indirect, special, exemplary, punitive, or consequential damages (including lost profits) of any nature whatsoever whether arising out of the purchase, shipment, unloading, handling, or use of any product or otherwise.

Tetralead trioxide sulphate	12202-17-4	235-380-9	N-pentyl-isopentylphthalate	776297-69-9	—
Dioxobis(stearato)trilead	12578-12-0	235-702-8	Tetraethyllead	78-00-2	201-075-4
Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
Tricosafuorododecanoic acid	307-55-1	206-203-2	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Methoxyacetic acid	625-45-6	210-894-6
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
Trilead dioxide phosphonate	12141-20-7	235-252-2	o-aminoazotoluene	97-56-3	202-591-2
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	4,4'-oxydianiline and its salts	101-80-4	202-977-0
Orange lead (lead tetroxide)	1314-41-6	215-235-6	Biphenyl-4-ylamine	92-67-1	202-177-1
Diisopentylphthalate	605-50-5	210-088-4	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
Lead cyanamidate	20837-86-9	244-073-9			
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7 -disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3
Cadmium sulphide	1306-23-6	215-147-8	Dihexyl phthalate	84-75-3	201-559-5
Lead di(acetate)	301-04-2	206-104-4	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9
Trixylyl phosphate	25155-23-1	246-677-8			

With regard to the composition of above grades of products, the aforesaid products do not contain the said SVHC substances.

Sincerely Yours,



Perry D. B. Shiueh
Director of R&D Division

The above statement is based on our current level of knowledge and covers the above products directly manufactured and supplied by CHI MEI CORPORATION at the date of issue. CHI MEI CORPORATION makes no warranties, whether express or implied, and assumes no liability in connection with any use of above information. Notwithstanding the foregoing, CHI MEI CORPORATION shall in no event be held obligated or liable for any claims due to or arising from (i) any customer provided, consigned, materials and/or parts, which are incorporated or adopted in the products; (ii) any combination of the products with material not provided or authorized by our company; (iii) any modifications to the products which are made or directed by customer; (iv) our compliance with the specifications, instructions, and/or designs provided by customer; (v) any anti-trust, unfair competition and/or other unlawful actions effected by customer; or (vi) any defects, infringement, breach and/or violation which are arising out of customer's faults or otherwise not solely and directly attributable to CHI MEI CORPORATION. In no event will CHI MEI CORPORATION be liable for any indirect, special, exemplary, punitive, or consequential damages (including lost profits) of any nature whatsoever whether arising out of the purchase, shipment, unloading, handling, or use of any product or otherwise.

Bulletin

We hereby certify the resins manufactured in CHIMEI CORPORATION listed below

POLYLAC[®] ABS

KIBISAN[®] SAN

POLYREX[®] PS

ACRYREX[®] PMMA

ACRYSTEX[®] SMMA

WONDERLITE[®] PC

WONDERLOY[®] PC/ABS Alloy

KIBITON[®] TPE

KIBITON[®] Q-resin

KIBILAC[®] ASA

ACRYPOLY[®] Optical PMMA Sheet

KIBILITE[®] Optical Diffuser Plate

comply with the requirements of

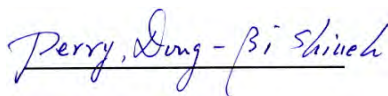
- EU Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).
- EU Directive 2003/11/EC restricts the use of Pentabromodiphenyl ether (Penta-BDE) and Octabromodiphenyl ether (Octa-DBE), neither of which may be placed on the market or used as a substance or as a constituent of substances or of preparations in concentrations higher than 0.1% by mass.
- Sony Standard SS-00259 : Management Regulations for the Environment-Related Substances to Be Controlled Which Are Included in Parts and Materials.
- Norwegian Directive PoHS on the restriction of the use of PFOA.
- EU directive 2006/122/EC on the restriction of the use of PFOS.

The restricted substances of Cadmium, Lead, Mercury, Hexavalent Chromium and flame retardants PBBs and PBDEs are not added intentionally for the production of the above products.

However, the existence of analytically detectable traces of individual heavy metals, which occur widely have possibly been introduced into our products via the raw materials, auxiliaries and additives, can not be excluded.

We do not use heavy metals or their compounds to manufacture our products.

Sincerely Yours,



Perry D. B. Shiueh
Director of R&D Division

CHIMEI

奇美實業股份有限公司
CHI MEI CORPORATION

59-1 SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN.
TEL: 886-6-266-5000 FAX: 886-6-266-5555~7

products with material not provided or authorized by our company; (iii) any modifications to the products which are made or directed by customer; (iv) our compliance with the specifications, instructions, and/or designs provided by customer; (v) any anti-trust, unfair competition and/or other unlawful actions effected by customer; or (vi) any defects, infringement, breach and/or violation which are arising out of customer's faults or otherwise not solely and directly attributable to CHI MEI CORPORATION. In no event will CHI MEI CORPORATION be liable for any indirect, special, exemplary, punitive, or consequential damages (including lost profits) of any nature whatsoever whether arising out of the purchase, shipment, unloading, handling, or use of any product or otherwise.

MemoryPack
www.memorypack.com.tw

Prüfbericht - Nr.: 10044908 034			Seite 1 von 2		
<i>Test Report No.:</i>			<i>Page 1 of 2</i>		
Auftraggeber: <i>Client:</i>		Chi Mei Corporation 59-1, San Chia, Jen Te, Tainan City 71702, Taiwan, R.O.C.			
Gegenstand der Prüfung: ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER <i>Test Item:</i>					
Bezeichnung: <i>Identification:</i>		POLYLAC® PA-757 / Nature			
Anlieferungszustand: <i>Delivery condition:</i>		apparent good	Eingangsdatum: <i>Date of Receipt:</i>		2013-12-16
Prüfört: <i>Testing location:</i>		TÜV Rheinland Hong Kong Ltd.			
Prüfgrundlage: <i>Test specification:</i>		According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU: Total Content of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers			
Prüfergebnis: <i>Test result:</i>		According to the kind and extend of tests performed the above mentioned test item passed the test specification.			
geprüft: tested by:			kontrolliert: checked by:		
2014-01-02 Anne Chen /Coordinator		2014-01-02 Carl Chang /Department Manager			
<i>Datum</i> Date	<i>Name/Stellung</i> Name/Position	<i>Unterschrift</i> Signature	<i>Datum</i> Date	<i>Name/Stellung</i> Name/Position	<i>Unterschrift</i> Signature
Sonstiges/ Other Aspects: Test period: 2013-12-16 – 2014-01-02					
Abkürzungen:		<i>ok / P = entspricht Prüfgrundlage</i>		Abbreviations:	
		<i>fail / F = entspricht nicht Prüfgrundlage</i>		<i>ok / P = passed</i>	
		<i>n.a. / N = nicht anwendbar</i>		<i>fail / F = failed</i>	
				<i>n.a. / N = not applicable</i>	
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i></p>					



Test Report No. : 10044908 034 2014-01-02
 Customer : Chi Mei Corporation
 Test Method : Cd, Pb, Hg, Cr VI, PBB/PBDE – determination with reference to EN 62321:2009

Sample	LoD	POLYLAC® PA-757 / Nature plastic / light yellow TCL131216-39
Material		
Lab.-No.		
Cadmium (Cd)	mg/kg	2
Lead (Pb)	mg/kg	2
Mercury (Hg)	mg/kg	2
Chromium VI (Cr VI)	mg/kg	2
PBBs	mg/kg	10
PBDEs	mg/kg	10

Notes:

- n.d. - not detected
- n.a. - not applicable
- LoD - Limit of Detection
- mg/kg is equal to ppm (parts per million)

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum permissible Limit acc. to 2011/65/EU (mg/kg)	100	1000	1000	1000	1000	1000

Test Sample

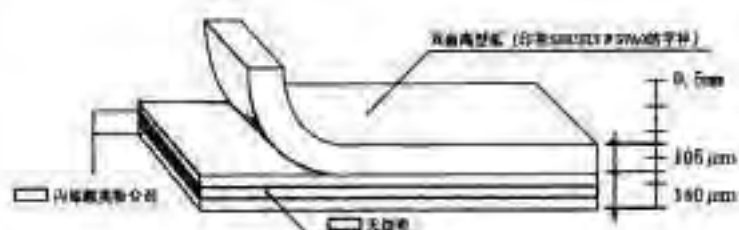

--- End of Test-Report ---



双面胶带 #5760

积水双面胶带 #5760 是为树脂铭板用途设计的可靠性强的双面胶带

构造



用途

适用于树脂铭板的粘合以及冲型加工。

特点

- 1) 耐反弹性强, 可防止弯曲面的翘起
- 2) 对于PP等难粘体也具有很高的粘合力, 对其它各种被粘物都具有很高的粘合力
- 3) 耐热、耐气候性能优越, 具有长期的可靠性
- 4) 冲型加工性能优越

标准尺寸

项目	单位	标准尺寸
胶带厚度	μm	140
树脂板厚度	μm	105
宽度	mm	5~1200
长度	m	20・50

如果对尺寸有特别要求, 请与本公司协商

一般特性

项目	单位	测定值	实验方法
粘合力(对SUS板)	N/25mm	20.5	标准JIS Z 0237
Ball Test (J.DOW造)	1/32"	10	标准JIS Z 0237
保持力(对SUS 40℃)	mm	0.3	标准JIS Z 0237

使用注意事项

- 1) 请在充分清除被粘面上的灰尘、油污、油脂、水分等之后再进行粘接。
- 2) 请避免反复粘贴。粘贴后, 应保持数小时。
- 3) 请小心避免粘到手指、脸、衣服、鞋等上。
- 4) 粘带撕开时, 请避免刮伤被粘物表面, 至于剥离处, 请妥善处理。
- 5) 胶带的保质期约为12个月。
- 6) 对下个项目用者如有疑问, 请与本公司协商。
- ※ 本数据表中以JIS的数值为基准值, 仅供参考。
- ※ 关于实验方法, 请与本公司协商。

本产品的规格以及标准可在本公司的网站上进行浏览, 敬请留意。
此外, 如您有欲对本产品时, 请在本页试验, 判断产品是否适合贵公司的使用环境。

积水化学工业株式会社

高性能材料公司工业胶带事业部

地址: 1-1-1 日本东京都港区芝浦
TEL: 03-5521-0921 FAX: 03-5521-0922

产品安全数据表

公司信息以及产品名称

公司名称 积水化学工业株式会社尼崎工场
 地 址 兵库县尼崎市潮江 5-8-6
 负责部门 胶带制造部胶带技术科
 电话号码 (06) 6429-4305
 传真号码 (06) 6423-0158
 制作日 1997年11月18日
 修订日 2002年 3月12日
 版 数 第2版

整理号码

产品名称(化学名称、商品名称等) 双面胶带 #5760

组成、成分信息

单一产品・混合物的区别: 混合物

化学名称 : -

构 成 : 基本材料: 非织布(纸浆、人造纤维、PVA)

粘 着 剂: 丙烯酸树脂

离 型 纸: 硅氧烷树脂、聚乙烯、格拉辛纸

危险有害性概要

分类的名称 : 不适用分类标准。

危 险 性 : 可燃性

有 害 性 : 目前尚不了解。

应急措施

进入眼睛时 : 请用流水充分冲洗眼睛, 并接受眼科医生的治疗。

沾到皮肤上时: 轻轻剥下, 然后用肥皂和水冲洗皮肤接触处。皮肤出现斑疹或者疼痛时, 请接受医生治疗。

吸入时 : 是固形物, 因此不适用于吸引。

吞下时 : 呕吐后, 根据必要接受医生治疗。

火灾时的措施

灭火方法: 请用以下的灭火剂灭火。此外, 可能会因不完全燃烧产生一氧化碳, 因此灭火时请使用防毒面具等保护用具。

灭 火 剂: 可使用水、泡沫灭火器、粉末灭火器、碳酸气等。

漏出时的措施

如果附近存在着火源, 请迅速清除。

请将飞散物清理后, 回收至适当的容器内。

使用以及
保管注意事项

使用：由于是重叠物，因此在使用时应避免落下等情况发生。
为了防止受损・变形，请不要冲击。
请在换气充分的场所使用。

保管：请在常温・常湿・阴凉处保管。
(请不要在极端高温・多湿环境下保管)
此外，应避免在阳光直射・风雨・结露等场所保管。

防止暴露
及保护措施容许浓度

管理浓度：—
日本产业卫生学会（年度版）：—
ACGIH（年度版）：—

设备对策：无特别必要。
保护用具：无特别必要。

物理
及化学性质

闪点：—℃
着火点(自然着火性、与水的反应性)：—℃
外观等：滚筒状胶带
臭气：—
沸点：— 蒸汽压：— 挥发性：—
融点：— 比重或者高比重：— 初馏点：—
溶解度：— 其他：—

稳定性・反应性

可燃性：有
爆炸界限：—
氧化性：目前尚不了解
自反应性・爆炸性：目前尚不了解
粉尘爆炸性：目前尚不了解
稳定性・反应性：目前尚不了解
其他：—

有害性信息(包括有关人的病例、病因学的信息)

皮肤腐蚀性：目前尚不了解
刺激性(皮肤・眼睛)：目前尚不了解
感作性：目前尚不了解
急性毒性(包括50%致死量等)：目前尚不了解
亚急性毒性(慢性毒性)：目前尚不了解
致癌性：目前尚不了解
诱变性(微生物・染色体异常)：目前尚不了解
生殖毒性：目前尚不了解
致畸性：目前尚不了解
其他(包括与水反应,生成有害气体等)：无

环境影响信息	分解性	:	目前尚不了解
	蓄积性	:	目前尚不了解
	鱼毒性	:	目前尚不了解
	其他	:	无

废弃时的注意事项 废弃时，请根据《废弃物的处理以及清扫相关法律》，由公认的产业废弃物处理人员或者地方公共团体进行处理。此外，焚烧时，请使用焚烧设备，根据《防止大气污染条例》等法令，进行适当的处理。

运输时的注意事项 请避免高温多湿以及阳光直射。包装使用了有波纹的厚纸，因此请避免风吹雨淋。此外，应避免落下、拖拉。
政府公报公告整理号码（化学审查法、安全卫生法）：—
CAS・NO : — —
联合国分类以及联合国号码： —

适用法令 消防法 : 指定可燃物

其他:

注意事项:

- 1) 本表记载内容是根据制定・修订时的信息而制作的。随着信息的更新，将来可能进行修改。
- 2) 注意事项记载了通常的处理对象。在进行特殊处理时，请采取相应的安全对策。
- 3) 危险性・有害性的评价未必充分，因此在使用时请充分注意。
- 4) 2001年PRTRI法的对象物质的含有量不足1WT%，在PRTRI法适用范围外。
- 5) 这里记载的内容根据目前的信息以及厂家的知识，这些数据以及评价并未作任何保证。随着法令修改以及知识更新，将来可能修订。

SEKISUI DOUBLE FACED TAPE #5760
 (Double coated adhesive tape for fixing resin nameplates)

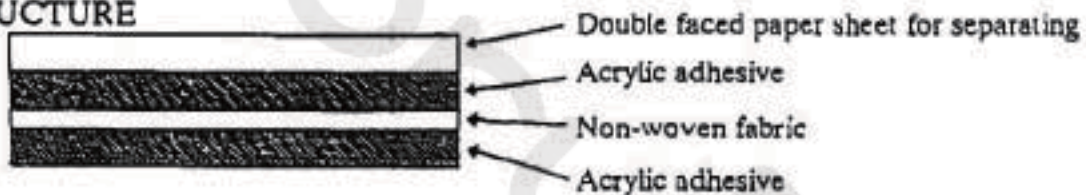
1. OUTLINE

Sekisui Double Faced Tape #5760 is the adhesive double coated tape for fixing resin nameplates developed so as to obtain adhesion reliability of resin nameplates under the every environmental condition.

Particularly, since the resin nameplates have strong repellency as compared with conventional aluminum nameplates #5760 is designed to have adhesion strength sufficiently adapting to warp and sink of moldings and further to endure dimensional transformation due to the environmental variation.

As for processibility of the resin nameplates, a paper sheet for separating which is newly developed is used so as to improve efficiency.

2. STRUCTURE



3. SPECIAL FEATURES

- 1) Excellent in repellency resistance, thus lifting at the curved portion can
- 2) High adhesion strength for every adherend including PP can be obtained.
- 3) Excellent in heat resistance, weatherability and heat creeping resistance, thus reliability and durability of adhesion can be obtained.
- 4) Excellent in punching processing quality.
- 5) Excellent in dimensional stability of the paper sheet for separating.
- 6) No lifting of the paper sheet for separating after laminating, and also the paper sheet for separating can smoothly be peeled off.

4. STANDARD DIMENSIONS

Thickness of tape	Width	Length
0.140 mm	1200 mm	50 m

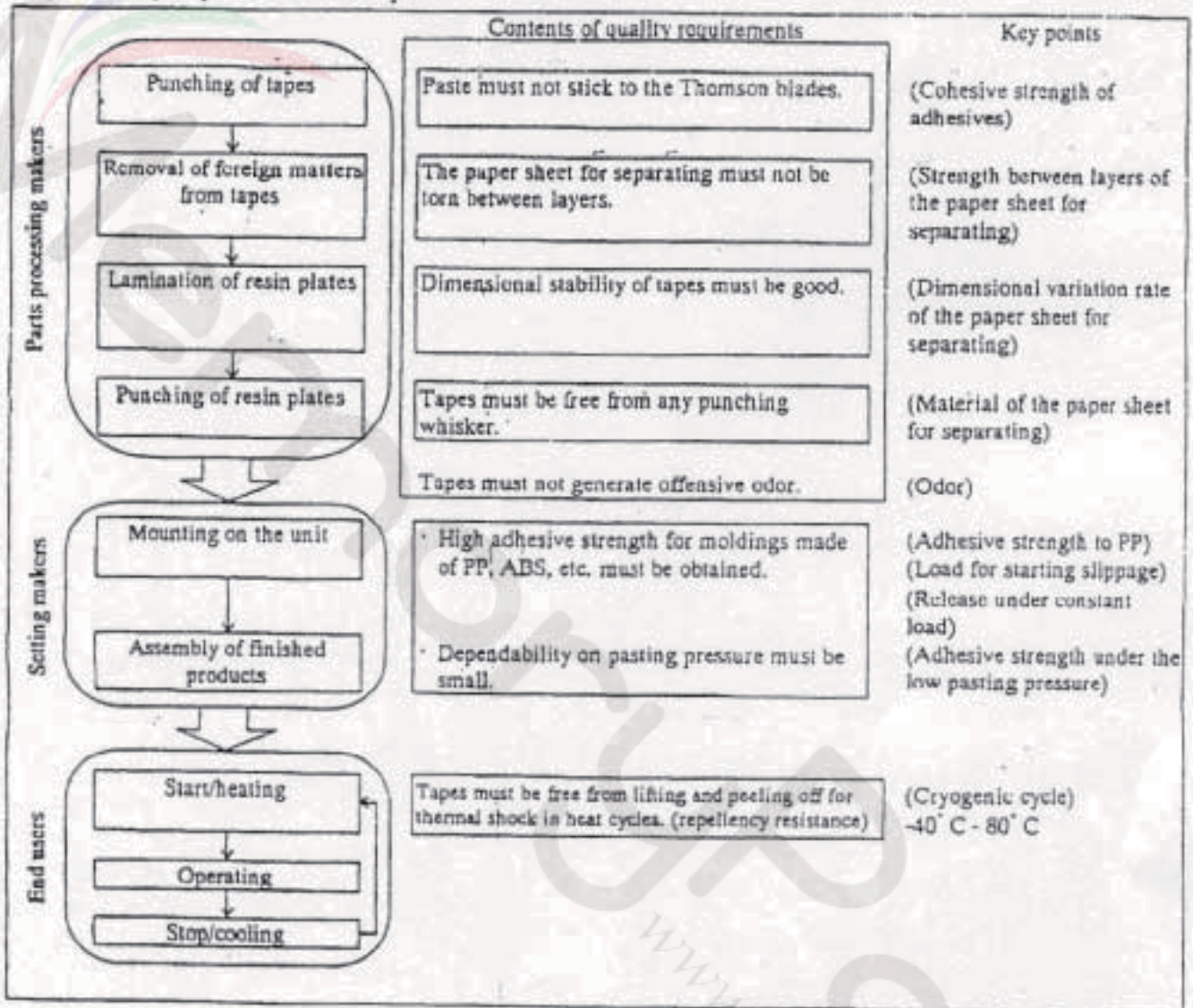
As for the optional width and length, please consult us.

5. USES

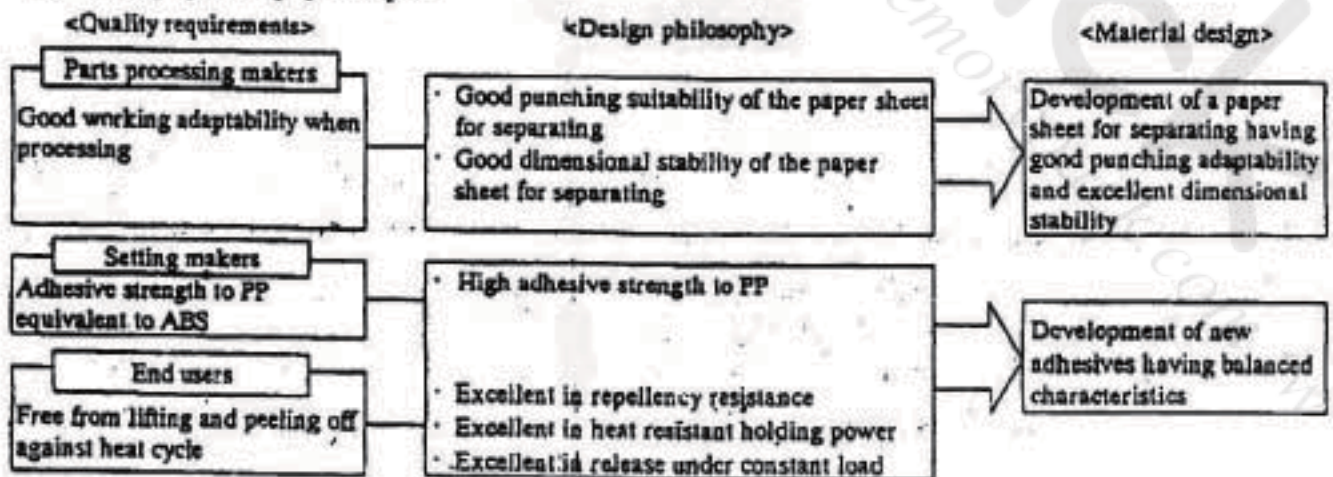
- 1) Nameplates of resin (plastic) and metal
- 2) Adhesion of surface decorative panels made of resin (plastic) and metal such as automobile parts, household electric appliances, etc.

6. QUALITY REQUIREMENTS AND DESIGN PHILOSOPHY OF ADHESIVE TAPES

1) Quality requirements for tapes



2) Design philosophy of tapes

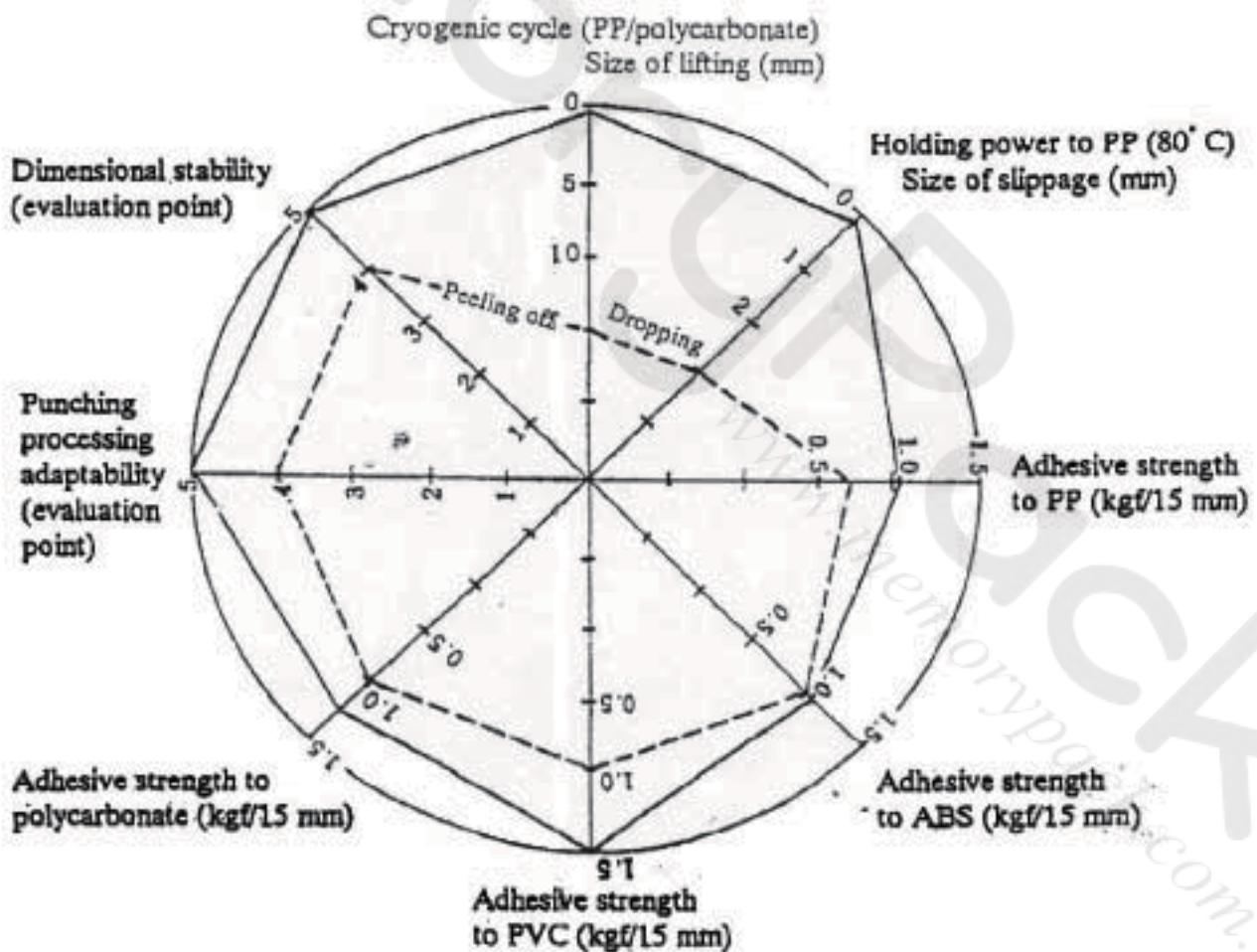


7. ADVANTAGES OF TAPES

Double Faced Tape #5760 for fixing resin nameplates has the following advantages:

- 1) Excellent in repellency resistance, so it can adhere to curved surface portions.
- 2) The scope of material selection is expanded because it provides high adhesive strength to adherends which are difficult to adhere to, like PP.
- 3) Design freedom is expanded because of high reliability of adhesive strength.
- 4) The scope of working temperature is expanded because of the excellent holding power of the paper sheet for separating at high temperature.
- 5) Pressing out of paste and slippage of a positioning hole can be eliminated because of good dimensional stability of the paper sheet for separating.
- 6) Pouching whiskers are not generated because of the use of glassine paper sheet for separating with good punching quality.
- 7) Narrow width punching is possible because of the high strength of the paper sheet for separating.

<Comparative diagram of special features>



5760 ———
Other maker's product - - -

8. CHARACTERISTICS

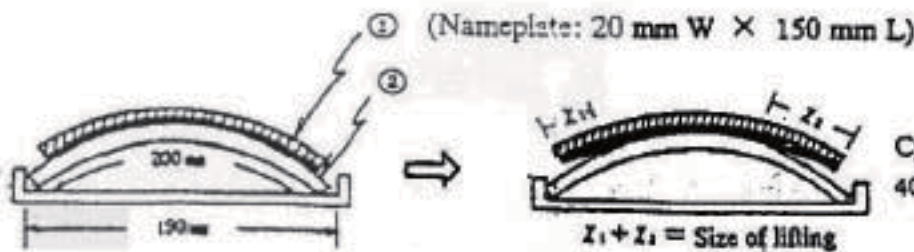
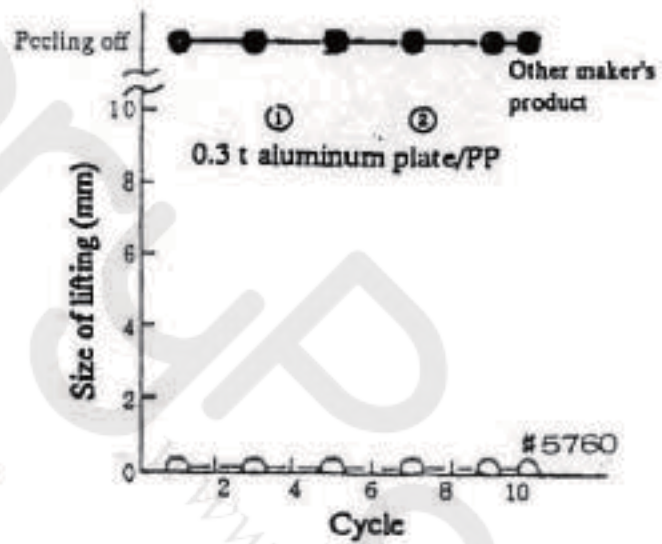
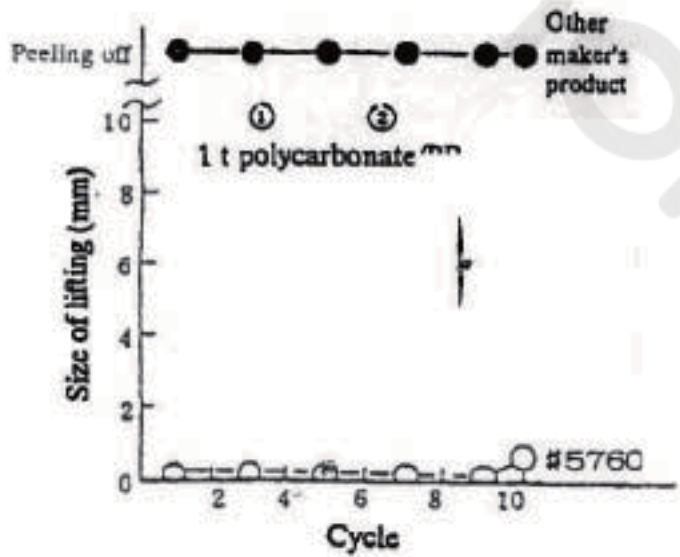
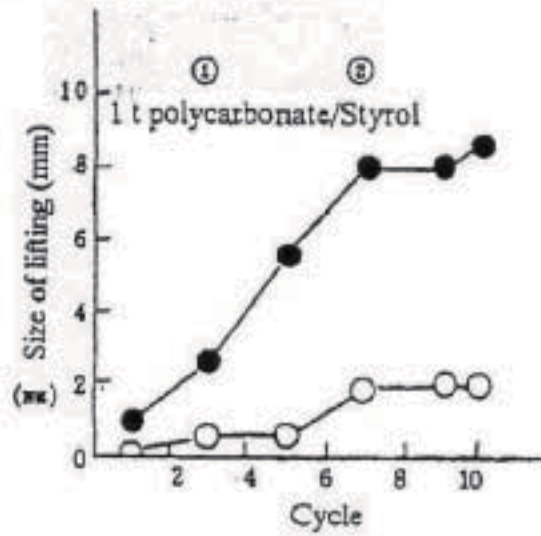
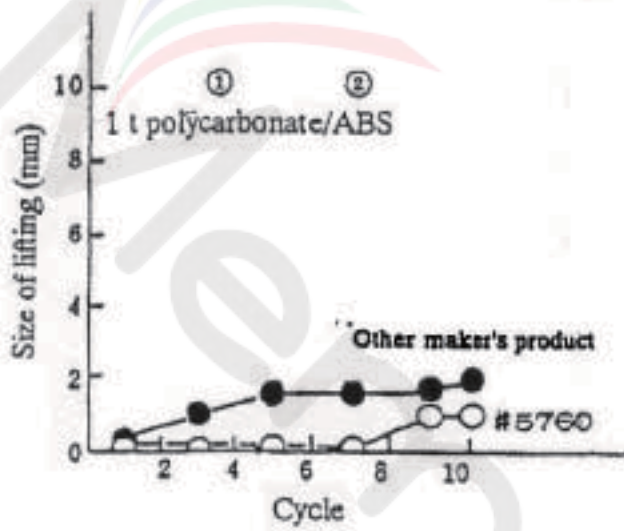
1) General characteristics

Item	Unit	#5760	Other maker's product	Testing method
Thickness of tape	μ	140	160	
Thickness of the paper sheet for separating	μ	107	81	
Ball tack	1/32" ¹	12.5	18.0	J. Dow method
Adhesive strength to stainless steel plate	g/15 mm	1,150	780	180° peeling method Tensile speed: 300 mm/min.
Adhesive strength in shear	kg/cm ²	15.6	14.5	Aluminum plate Tensile speed: 200 mm/min.
JIS holding power	mm	0.35	0.50	JIS method Stainless steel plate at 40° C
Releasing power of the paper sheet for separating	g/50 mm	22	29	180° separation Tensile speed: 300 mm/min.
Developing power of tapes	g/50 mm	81	103	Developing method Developing speed: 1 m/min.

9. CHARACTERISTICS

1) Repellency resistance test (cryogenic cycle)

It can adhere to curved surface portions because of excellent repellency resistance.

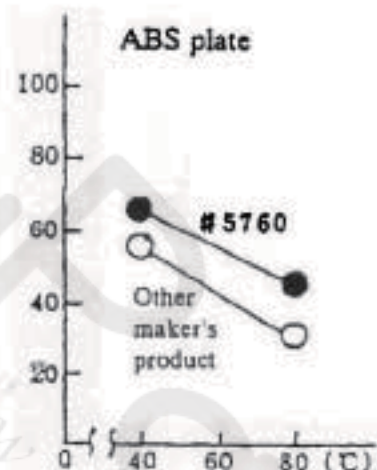
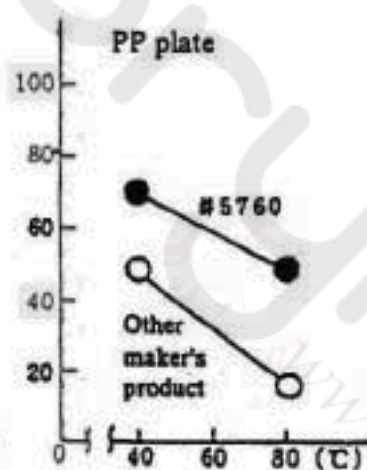
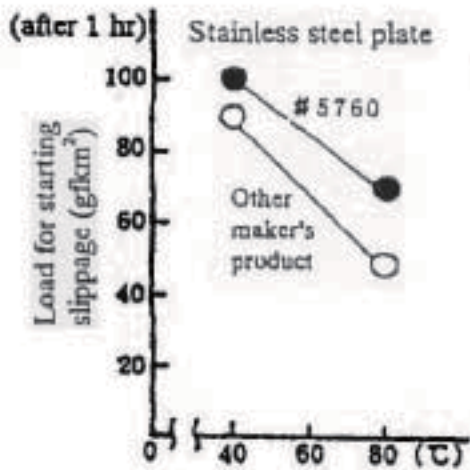
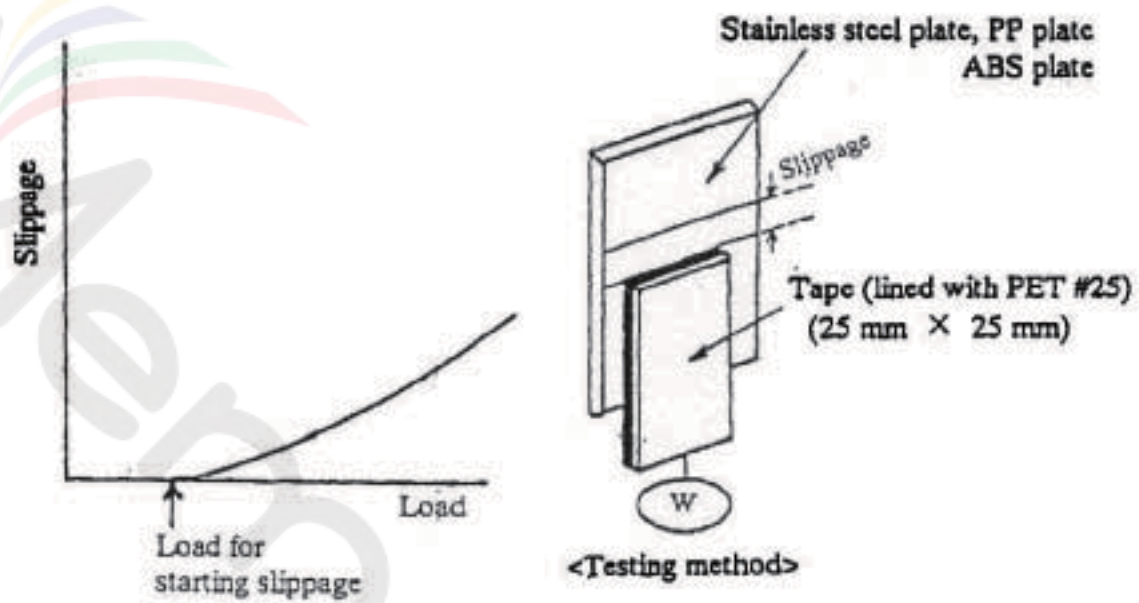


Cycle conditions:
40° C × 2 hr → 80° C × 2 hr

<Cryogenic cycle test>

2) Adhesion reliability test (load for starting slippage)

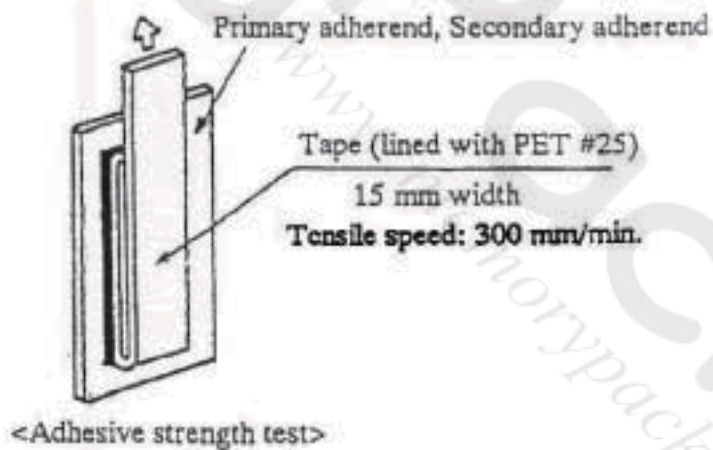
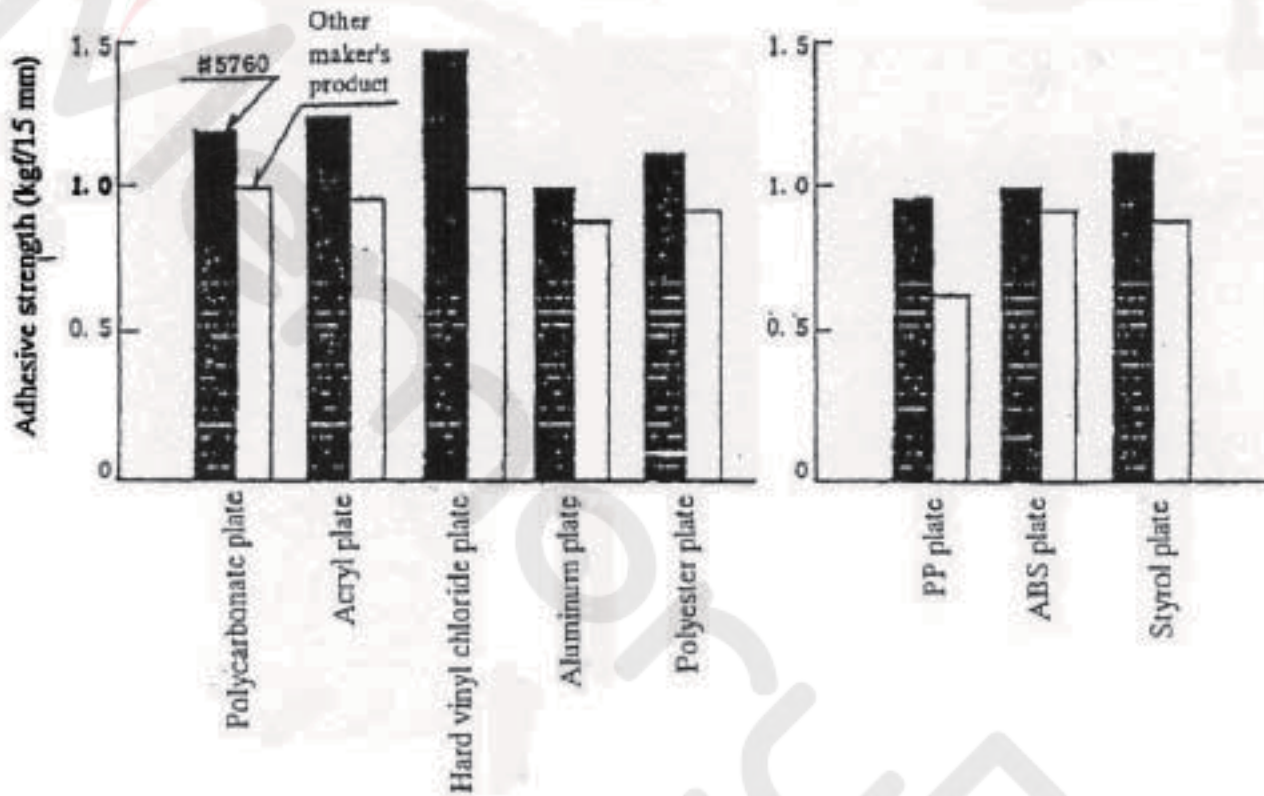
Design freedom is expanded because of high reliability of adhesive strength.



3) Adhesive strength test by adherend (180° peeling off method)

The scope of selection of materials is expanded because the tape gives high adhesive strength to adherends which are hard to adhere like PP.

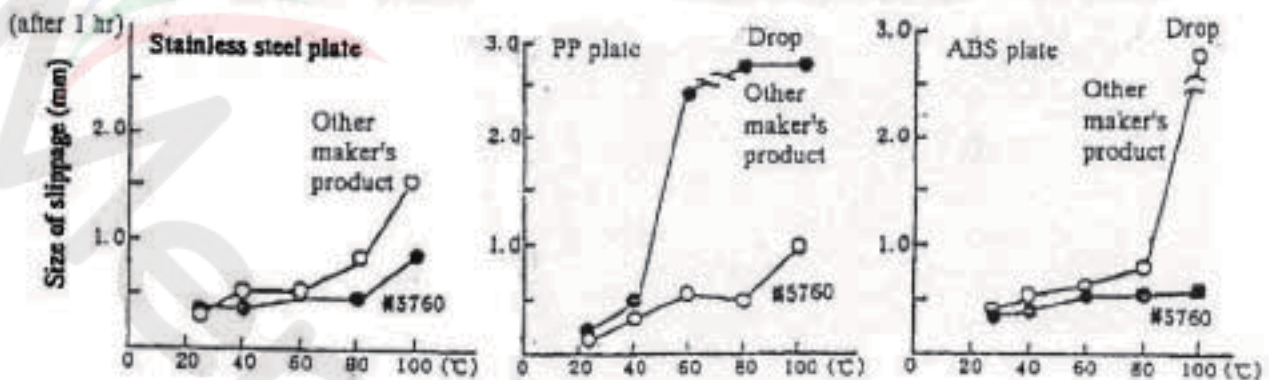
(1) Primary adherend (material of resin nameplates) (2) Secondary adherend (material of moldings)



4) Creep resistance test

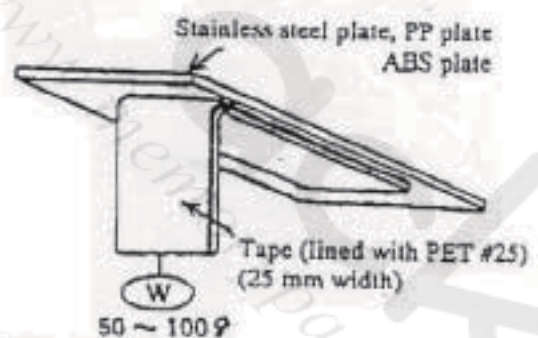
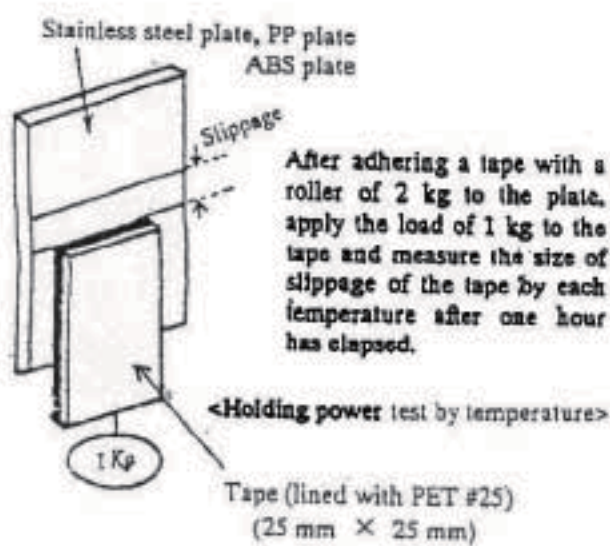
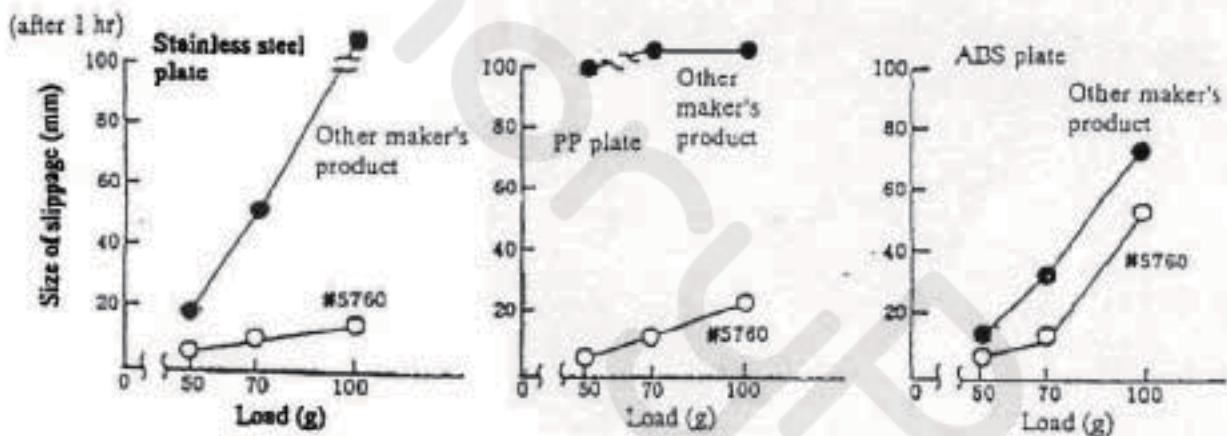
(1) Holding power test by temperature

The scope of working temperature is expanded because of excellent holding power.



(2) Constant load releasing test by load

The tape is hard to release even under heavy load and is excellent in repellency resistance.



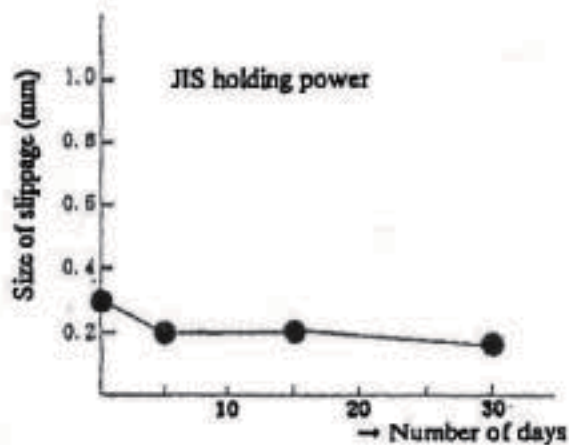
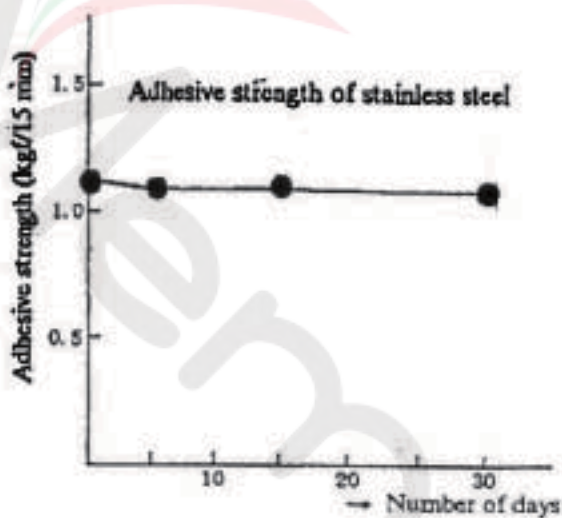
After adhering a tape with a roller of 2 kg to the plate, apply the load of 50 to 100 g to the tape and measure the size of pooling off of the tape at the temperature of 60 °C after one hour has elapsed.

<Constant load releasing test by load>

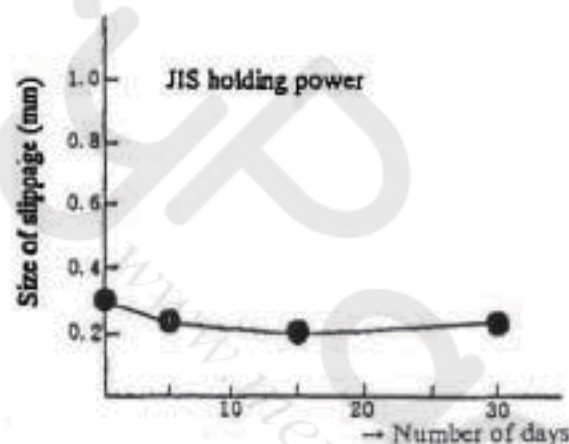
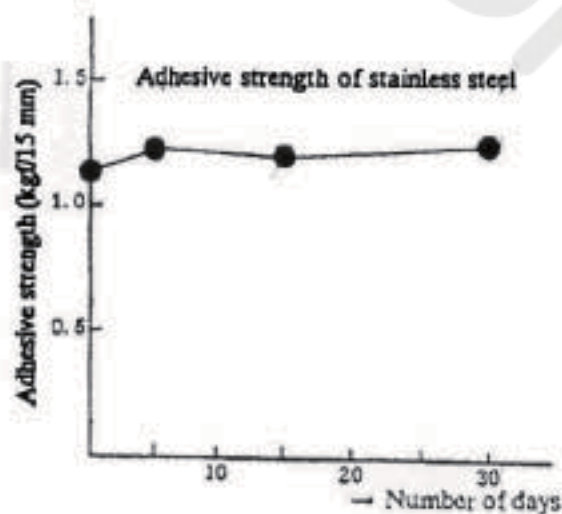
5) Durability test

- The tape has excellent stability in heat aging resistance and wet heat aging resistance.

(1) Aging conditions: 70° C



(2) Aging conditions: 40° C × 90% RH



<Testing method>

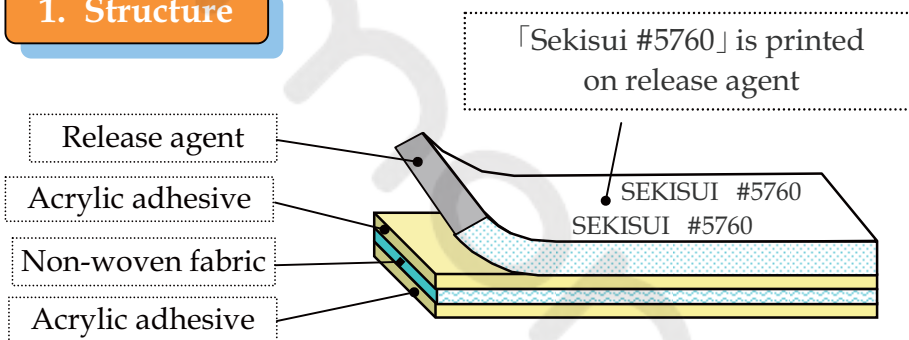
After placing a tape roll into a thermostatic chamber which is kept at the temperature of 70° C and 40° C and the humidity of 90% RH, measure the adhesive strength (180° C peeling-off method) and JIS holding power (stainless steel plate: 40° C) against a stainless steel plate.*

(Note) All values described in these data are measured values but not guaranteed values.

Double Faced Tape #5760

•SEKISUI DOUBLE FACED TAPE #5760 is for resin palte and is developed to gain adhesion power's reliability.

1. Structure



2. Standard size

Tab-1 Standard Size

Items	Units	Standard Size
Tape's thickness	μm	140
Release agent's thickness	μm	105
Width	mm	5~1200
Length	m	20・50

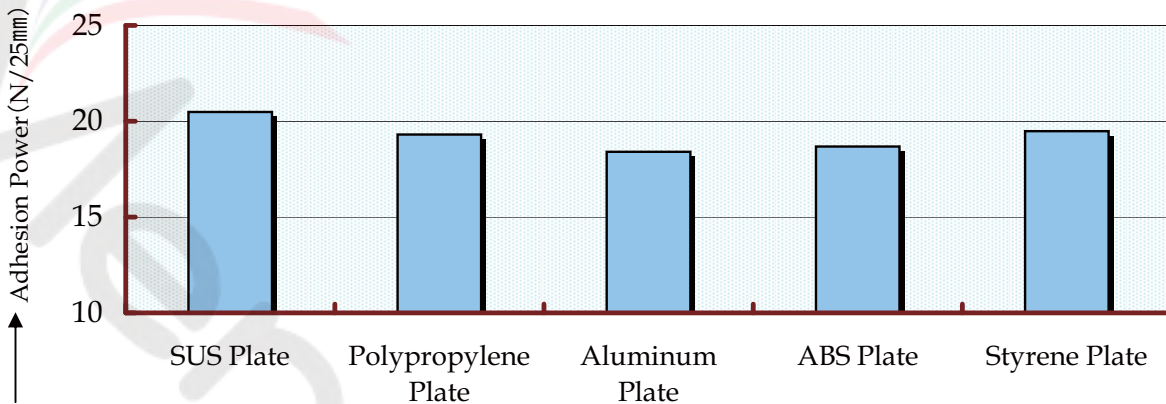
※ Please contact us for other scale request.

3. General adhesion characteristics

Table-2 General adhesion characteristics

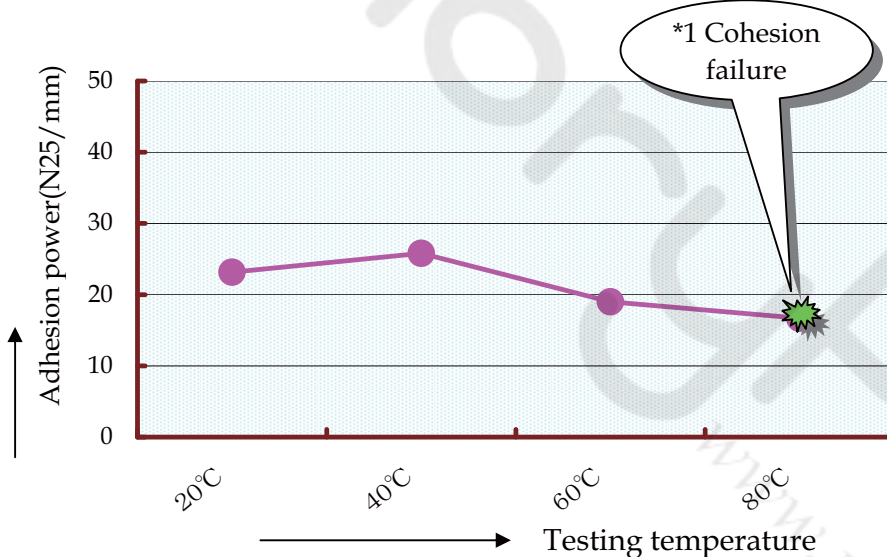
Items	Units	Measurement Value	Testing method
Adhesion (180°Peeling to SUS Plate)	N/25mm	20.4	Based on JIS Z 0237
JIS Holding Power (To SUS plate, 40°C)	mm	0.4	Based on JIS Z 0237

4. Adhesion power of 180 degree peeling of different adherends



※ Testing method : Based on JIS Z 0237

5. Adhesion power at different temperature

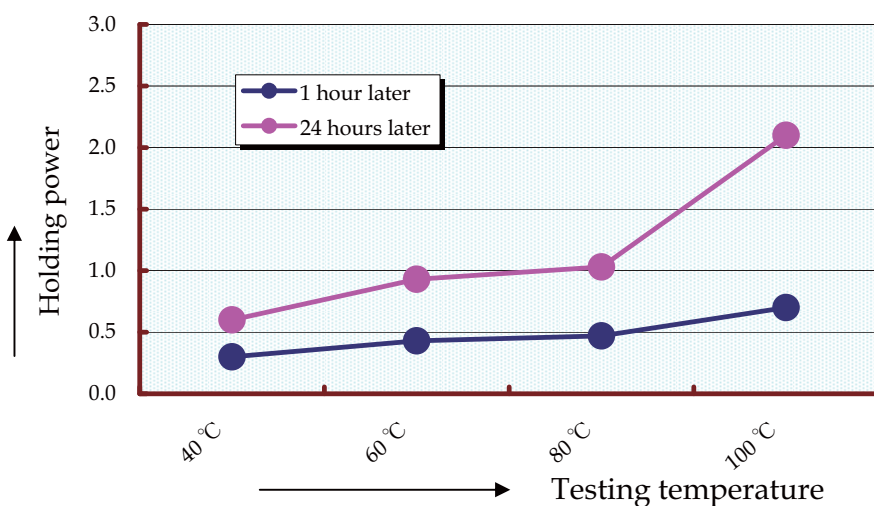


• Testing method
JIS Z 0237.

• Stick to SUS plate at the temperature of 23°C, leave for 24 hours. Then leave for 2 hours at the each temperature and measure.

*1 Cohesion failure
Destruction of base material in appearance.

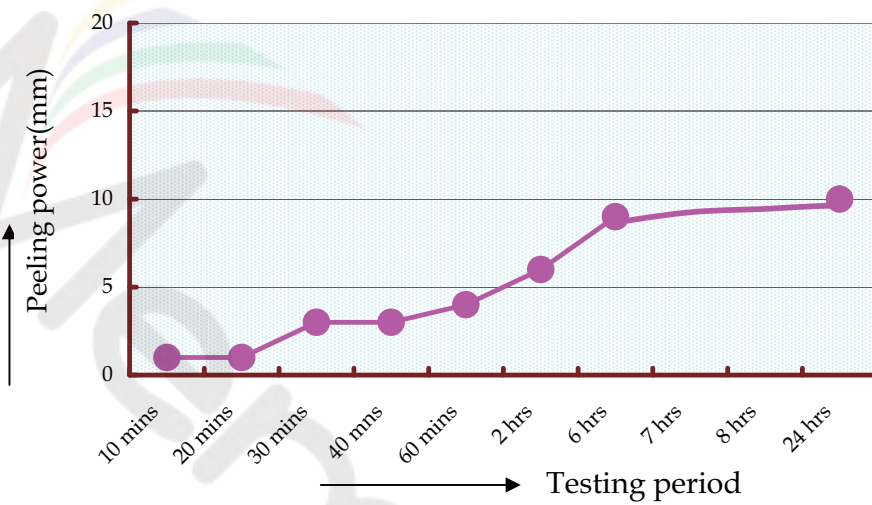
6. Holding power at different temperature



• Testing method
JIS Z 0237.

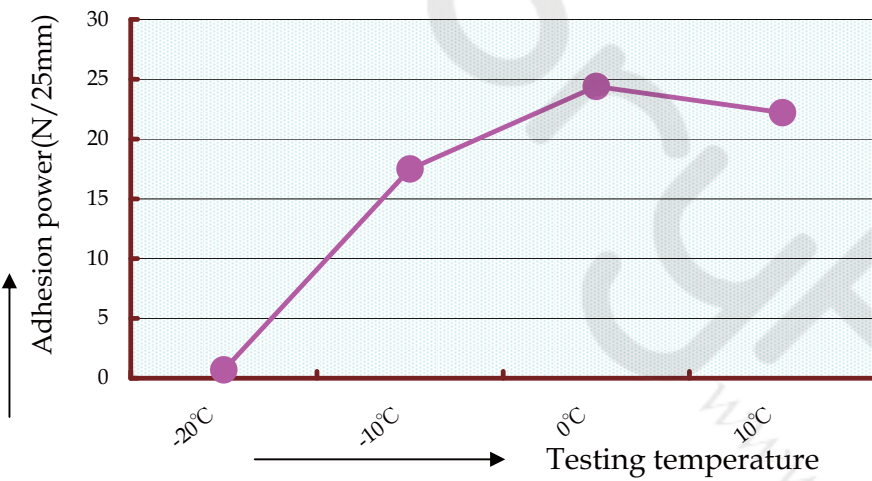
• Stick to SUS plate at the temperature of 23°C. Then gap is measured after 1 KG load is applied after leaving for 1 hour or 24 hours at the temperature of various temperature mentioned in the table, on the left. (Sample size : 25 x 25mm)

7. Peeling off power of fixed load



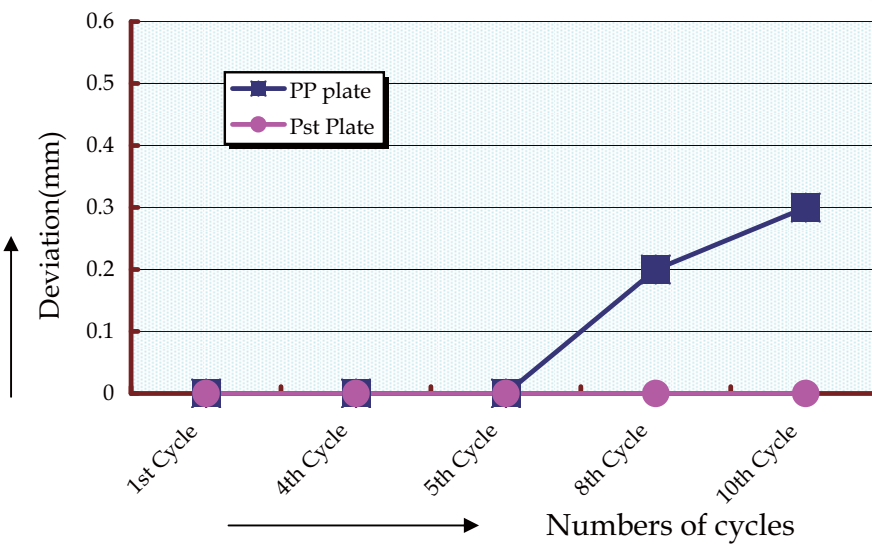
- Testing method
Based on Sekisui's method
- Stick to PP plate at the temperature of 23°C and leave for 24 hours. Then peeling off length is measured at the each testing period after 80g load is applied.
(Sample size : 20 x 50mm)

8. Applying at low temperature



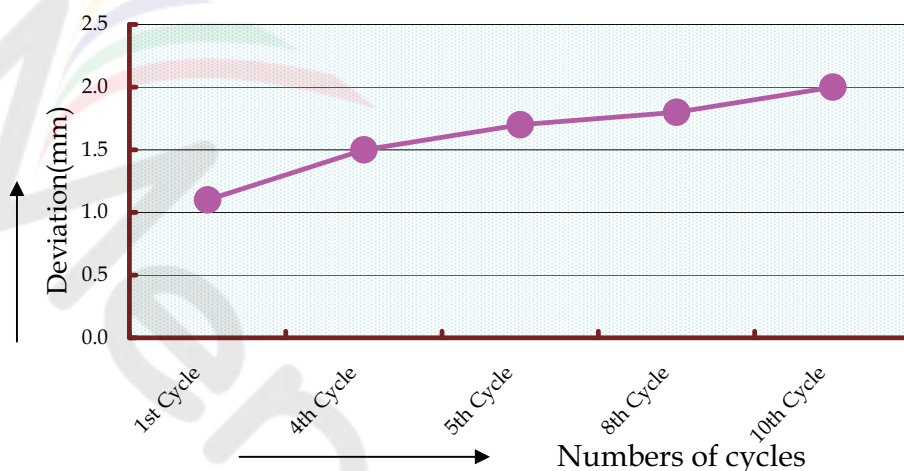
- Testing method
Based on JIS Z 0237
- Stick to SUS plate at the temperature of different temperatures. Then, leave for 20 minutes before the test.

9. Flat plate rebound



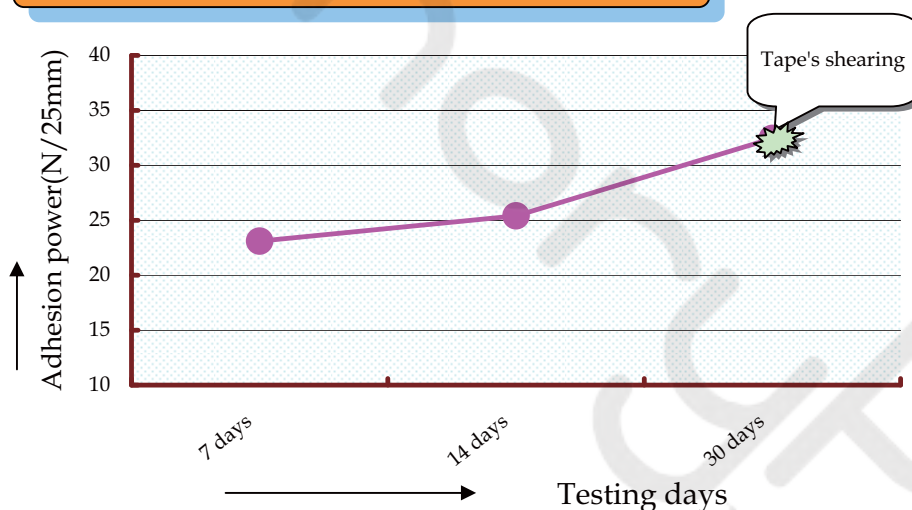
- Testing method
Based on Sekisui's method
- Stick to Aluminum plate at the temperature of 5°C and insert to jig. -20°C, 80°C, -20°C is measured as one cycle and measure top height of peeling from Aluminum plate

10. Curved pate rebound



- Testing method
Based on Sekisui's method
- Stick to Aluminum plate at the temperature of 5°C
-20°C, 80°C, -20°C is measured as one cycle and measure top height of peeling from Aluminum plate

11. Moisture and heat resistance aging



- Testing method
Based on Sekisui's method
- Stick to SUS plate at the temperature of 23°C and leave for each testing days in the atmosphere of 50°C × 95%RH. Then leave in the atmosphere of 23°C for 24 hours and measure.

12. Cautions in use

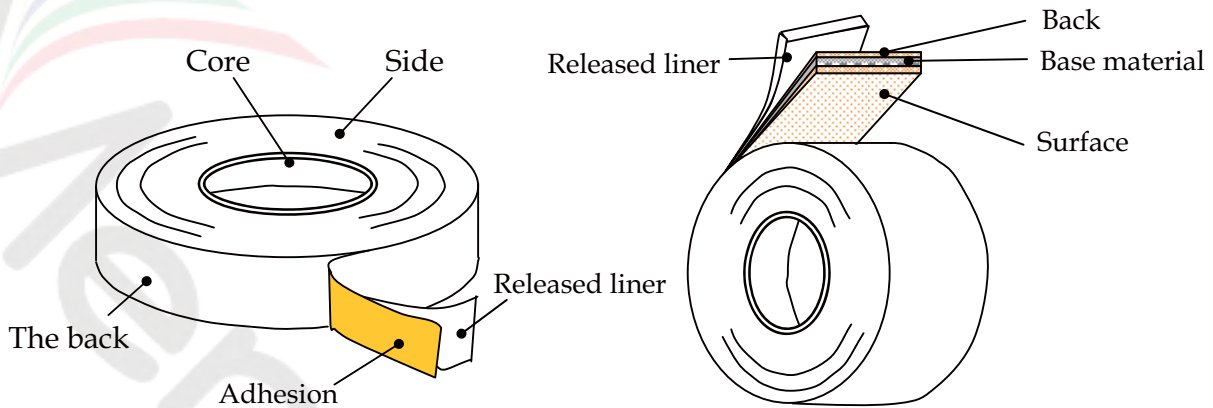
- 1) Please remove dirt, water, oil and other contaminants from the substrate's surface before use.
- 2) Please avoid re-application, and leave it for several hours after application.
- 3) Please avoid direct application on uneven or coarse surfaces and human bodies.
- 4) Please avoid storage in places with high temperatures, high humidity, and direct sunlight.
- 5) The warranty period of products is for 6 months after delivery date.
- 6) Please do tests on first-time adherends. If in doubt about its use, please contact us.
 - ※ The figures in this Technical Data Sheet are measured values and not guaranteed values.
 - ※ If you wish to use #5760 in a special way, please contact us before use.

There is a possibility of changing appearance and specifications without pre-notice. All the users must use our product after judging and testing to see if it suits the usage that the product demands.

Sekisui Chemical Co., Ltd.
HIGH-PERFORMANCE PLASTICS COMPANY

ADDRESS :
(Toranomon 2-chome Tower)
2-3-17, Toranomon, Minato-ku,
Tokyo 105-8450, Japan

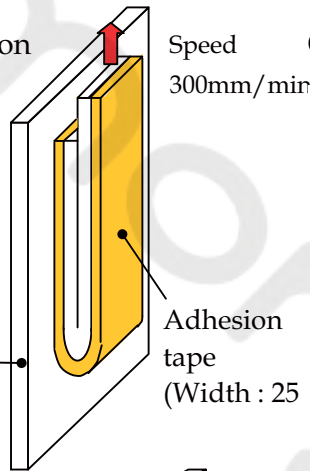
Testing Method of Double Faced Tape Characteristics



● 180° Peeling adhesion

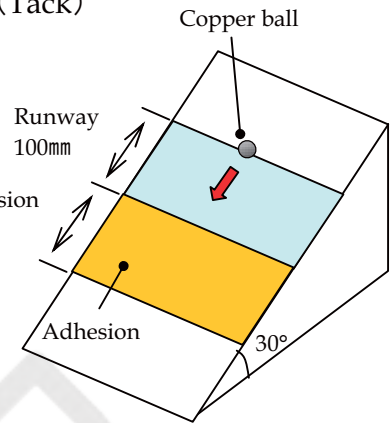
Adhesion is the strength needed to peel off to a stainless steel panel in a 180° direction.

Stainless plate



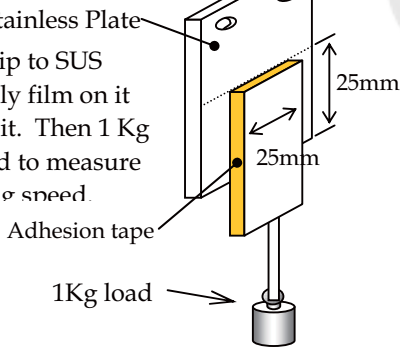
● Initial adhesion (Tack)

A test strip with the adhesive faced up is placed on a slanted panel, and copper balls of different sizes are rolled down



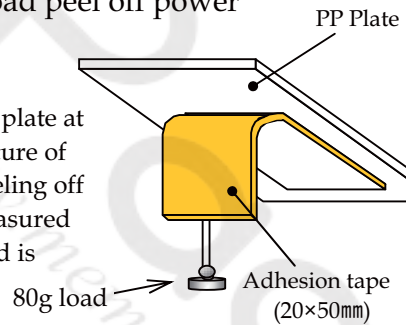
● Holding Power

Apply test strip to SUS plate and apply film on it to strengthen it. Then 1 Kg load is applied to measure a gap or falling speed.



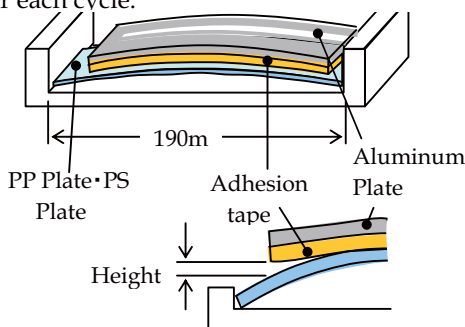
● Fixed load peel off power

Apply to PP plate at the temperature of 23°C and peeling off length is measured after 80g load is



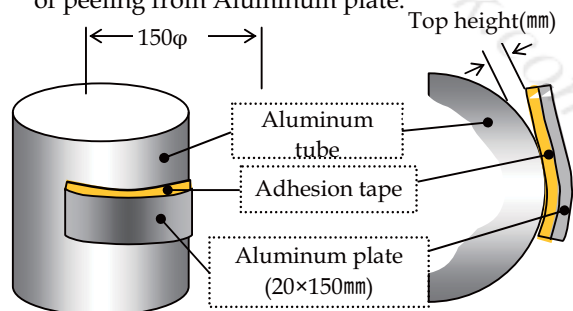
● Flat plate rebound

Apply test strip to Aluminum plate and apply it to PP plate and Pst plate and insert to jig. Then measure top of height of peeling from Aluminum plate after each cycle.



● Curved surface rebound

Apply test panel which applied to 150φ Aluminum can. Then measure the top height of peeling from Aluminum plate.



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510-5, SHIDE SUWA TAGA-CHO, INUKAMI-GUN, SHIGA, 522-0314 JAPAN



The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Description : FOAMED DOUBLE-FACED TAPE
Style/Item No. : #5760
Sample Receiving Date : 2013/03/25
Testing Period : 2013/03/25 TO 2013/03/27

=====
Test Requested : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.
(2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.
Test Method : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).
Conclusion : (1) Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Result(s)

PART NAME No.1 : TRANSLUCENT DOUBLE FACED ADHESIVE (EXCLUDING THE DOUBLE RELEASE PAPER)

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
Sum of PBBs			-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl			5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-
Sum of PBDEs			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether			5	n.d.	-
Tribromodiphenyl ether			5	n.d.	-
Tetrabromodiphenyl ether			5	n.d.	-
Pentabromodiphenyl ether			5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether			5	n.d.	-
Nonabromodiphenyl ether			5	n.d.	-
Decabromodiphenyl ether			5	n.d.	-

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510-5, SHIDE SUWA TAGA-CHO, INUKAMI-GUN, SHIGA, 522-0314 JAPAN



Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
Halogen					
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	n.d.	-
Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.	-
Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	-

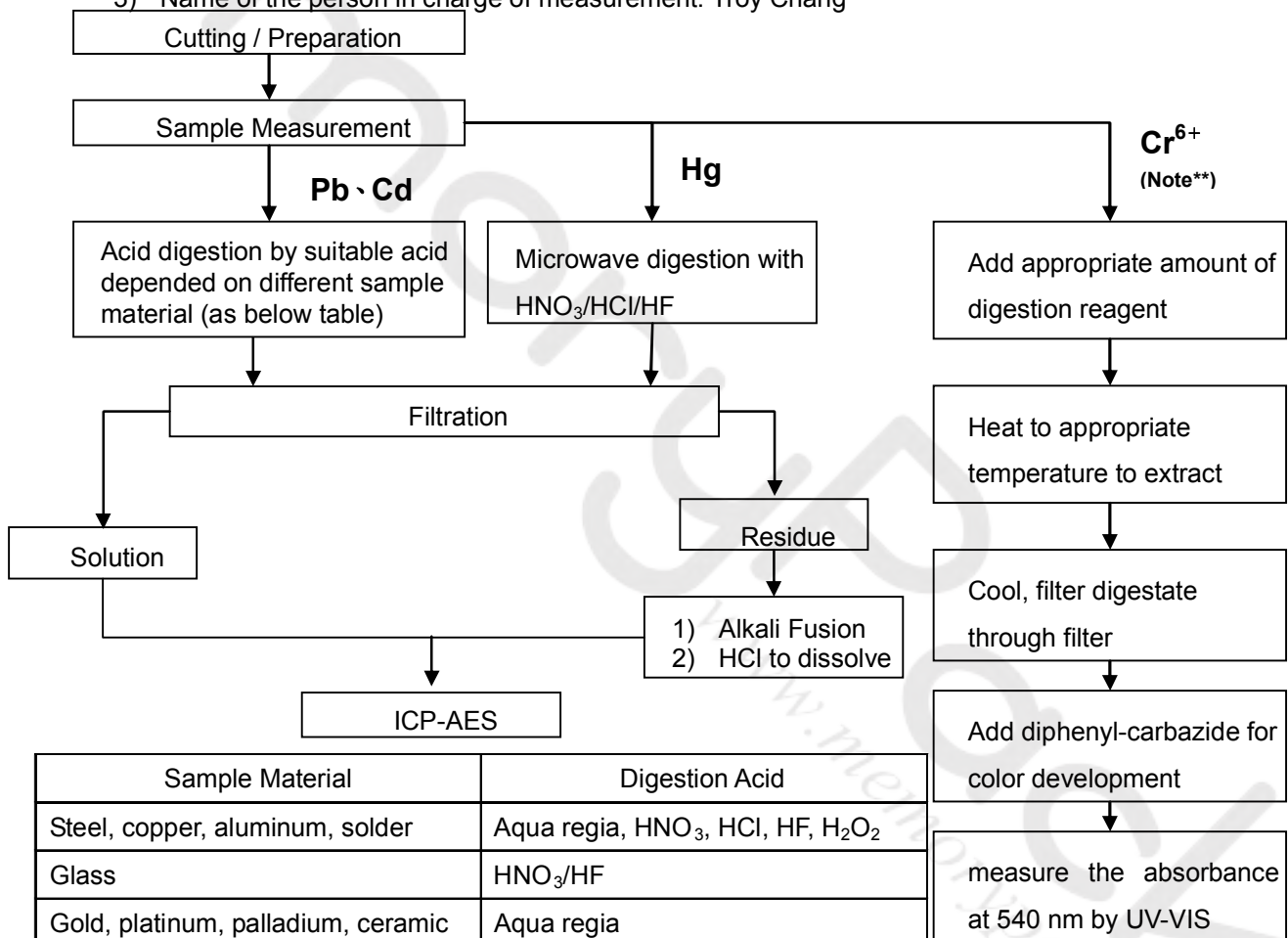
Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

SEKISUI CHEMICAL CO., LTD TAGA PLANT
510-5, SHIDE SUWA TAGA-CHO, INUKAMI-GUN, SHIGA, 522-0314 JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Added appropriate reagent to total digestion

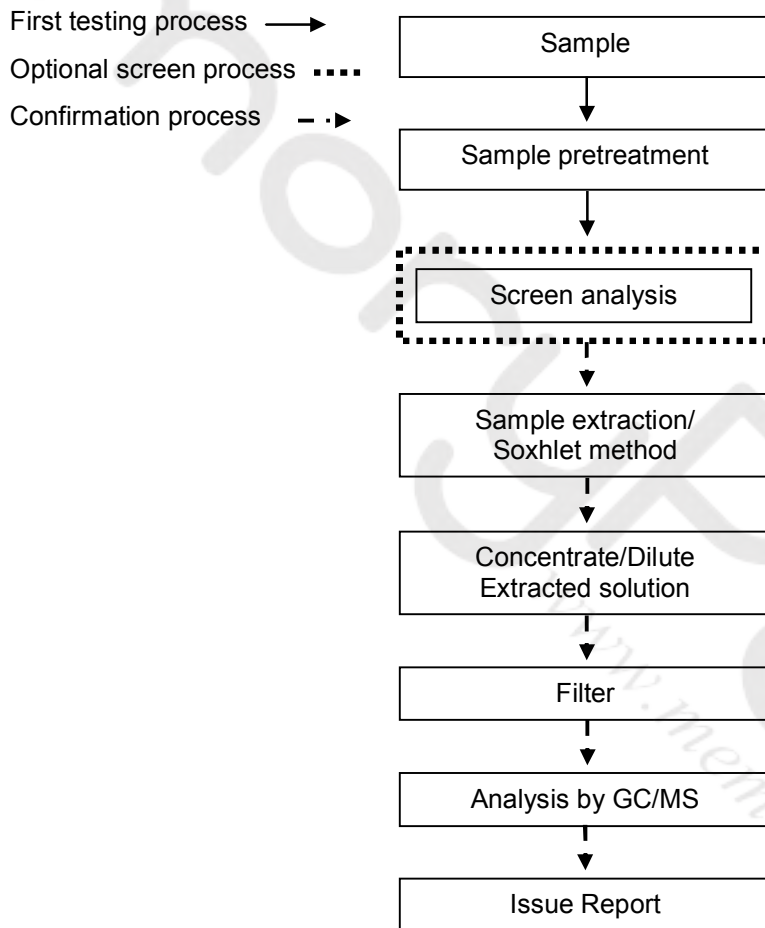
Note :** (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.
(2) For metallic material, add pure water and heat to boiling.

SEKISUI CHEMICAL CO., LTD TAGA PLANT
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PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



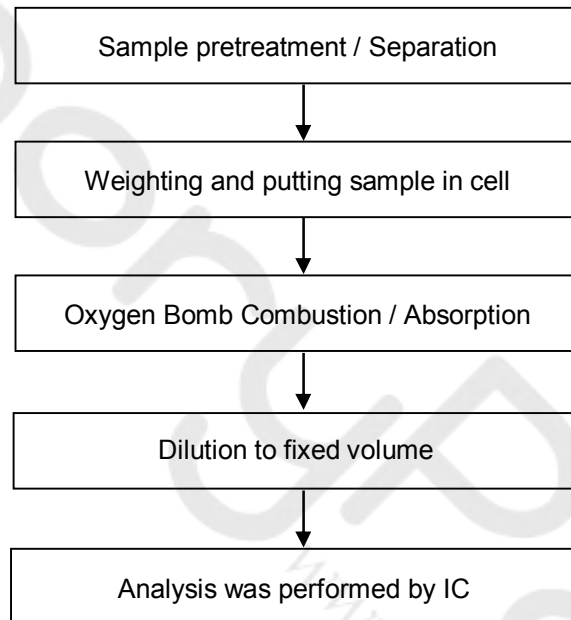
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SEKISUI CHEMICAL CO., LTD TAGA PLANT
510-5, SHIDE SUWA TAGA-CHO, INUKAMI-GUN, SHIGA, 522-0314 JAPAN



Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang



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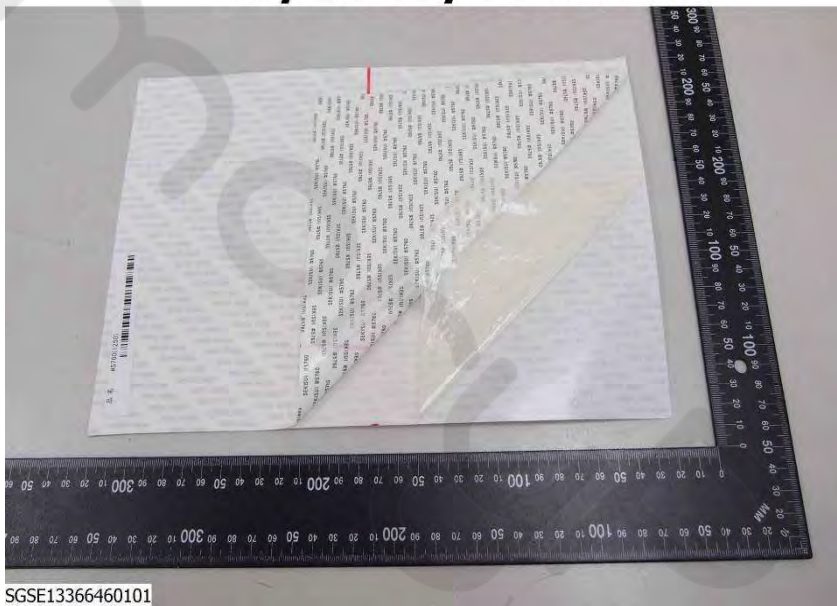
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SEKISUI CHEMICAL CO., LTD TAGA PLANT
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2013/36646



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