



NAN YA RELEASE FILM

Digital and Intelligent Transformation of Products

南亞離型膜

產品數位智能化轉型

南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION

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台塑企業是一個以塑膠工業為主體，在纖維、紡織、染整、海運、教育及醫療等事業上也都佔有相當份量的企業。並將經營觸角延伸至電子、光學材料及輕油裂解等工業。

自1954年創立台灣塑膠公司以來，經六十年不斷地努力經營，目前共擁有台塑、南亞、台化、台塑石化等百餘家關係企業，分別在台灣、美國、中國、越南、菲律賓及印尼都設有工廠。

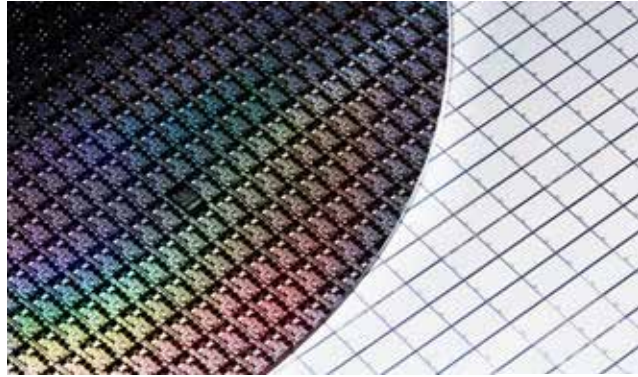
本企業對經營管理合理化的追求，一向不遺餘力，本著「勤勞樸實」的經營理念，並以追根究底的精神，針對管理上的缺失，作深入探討，以發掘問題，謀求改善。並藉執行、檢核、改善等不斷的循環作業，使管理製作更臻健全，也使人、事、物的管理與配置達到最合理的境界。

The Formosa Plastics Group is a private enterprise which is mainly engaged in the plastics industry, and this enterprise is also engaged in fibre, textiles, dyeing, shipping, educational and medical areas. We extend our enterprise to the electronic, optical parts and naphtha cracking industries, too.

Since the Formosa Plastics Corporation was established in 1954, the Formosa Plastics Group's continuous efforts have developed it into a group consisting of more than 100 conglomerates.

Management is the most important aspect of modern business operations. We realize that only sound management can enable a company to continue to grow in spite of external changes. It has always been our Group's top priority to pursue management. With regard to the defects and flaws in our operation, it has been our spirits to make a thorough investigation and dig out the root causes of the problems for improvement.

Through the continuous good circle of "DO", "CHECK", and "IMPROVE", we have enabled the management of the people, the work, and the materials to reach the most rational state.



NAN YA RELEASE FILM

南亞離型膜 係本公司運用 PET 薄膜製造經驗，結合精密塗佈技術，自行研發之品牌，包含透明、霧面、白色、雙面等機能性光電級產品。

秉持本企業一貫「追根究底、止於至善」之精神，南亞離型膜全程在自動控制下生產，確保穩定的品質，力求產品精進，面對市場挑戰不斷強化競爭力，以共創客我互信與雙贏。

Meeting Challenges, Winning Trust

NAN YA Release Film is a trading mark registered by Nan Ya Plastics Corporation. By means of our own manufacturing experience on PET film as well as the advanced coating technology, we have developed the high transparency, matte, colored, and anti-static film etc. All our products have been kept on researching to fulfill our customers satisfaction and the requirement of future electro-optical industries.

To assure the high quality performance, all Nan Ya Release Film are made by fully automatic process under the integral QC inspection management system. We commit to keep innovating the advanced products and providing the on-line technical service to meet the oncoming global network challenge.



slitted roll



XRF analyzer



slitting process



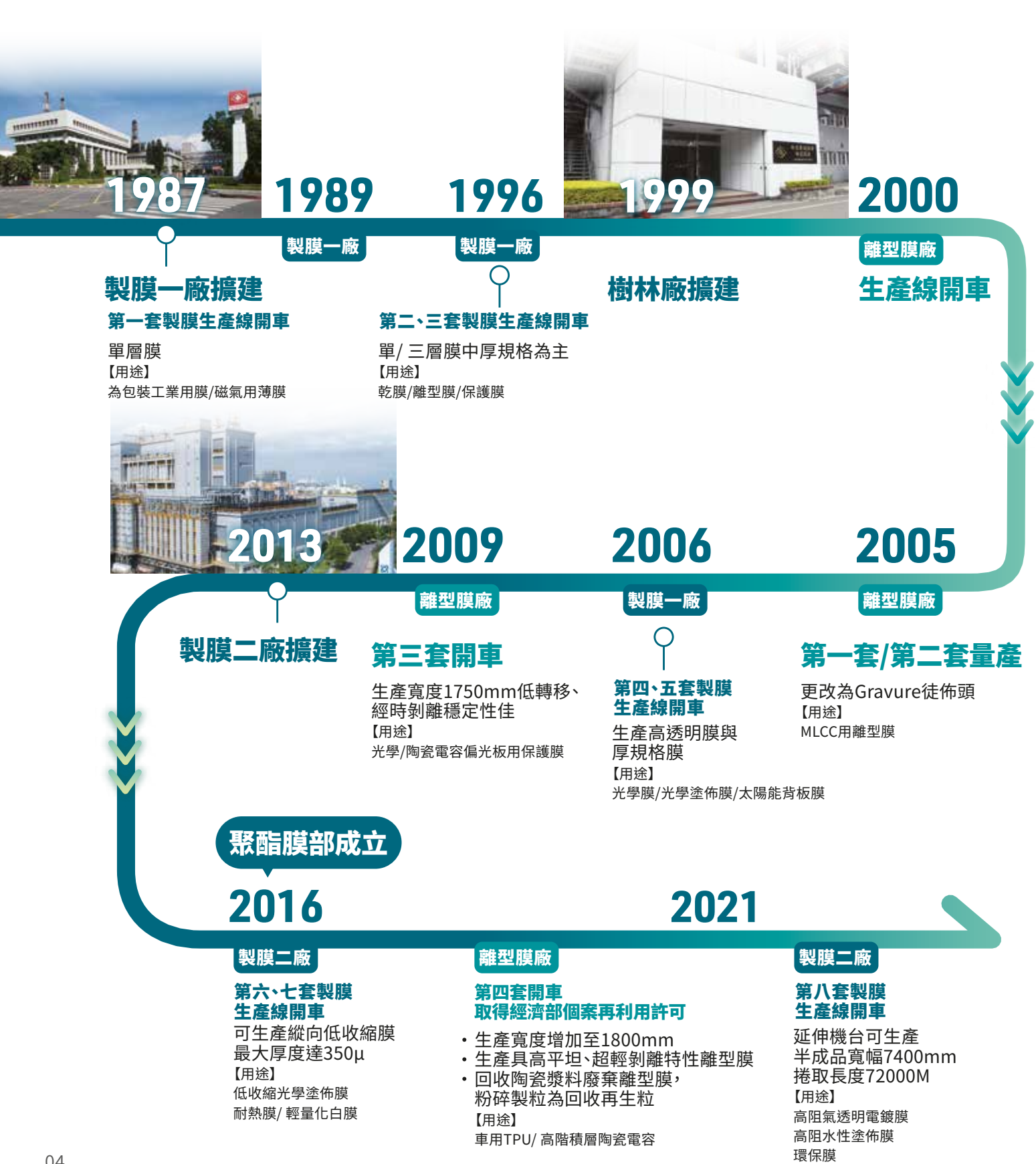
optical microscope



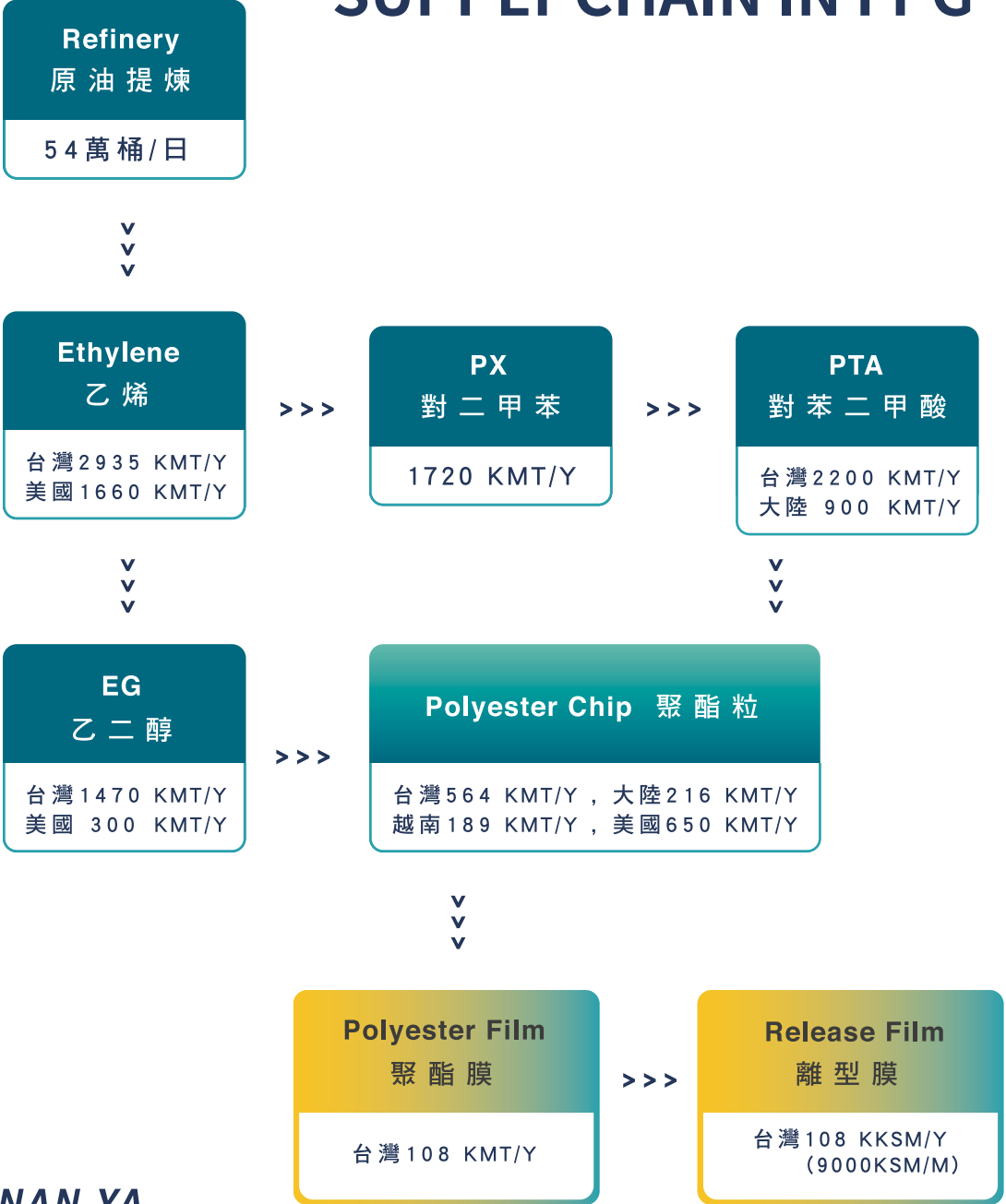
surface texture analyzer



NAN YA POLYESTER SEGMENT HISTORY



INTEGRATION OF SUPPLY CHAIN IN FPG

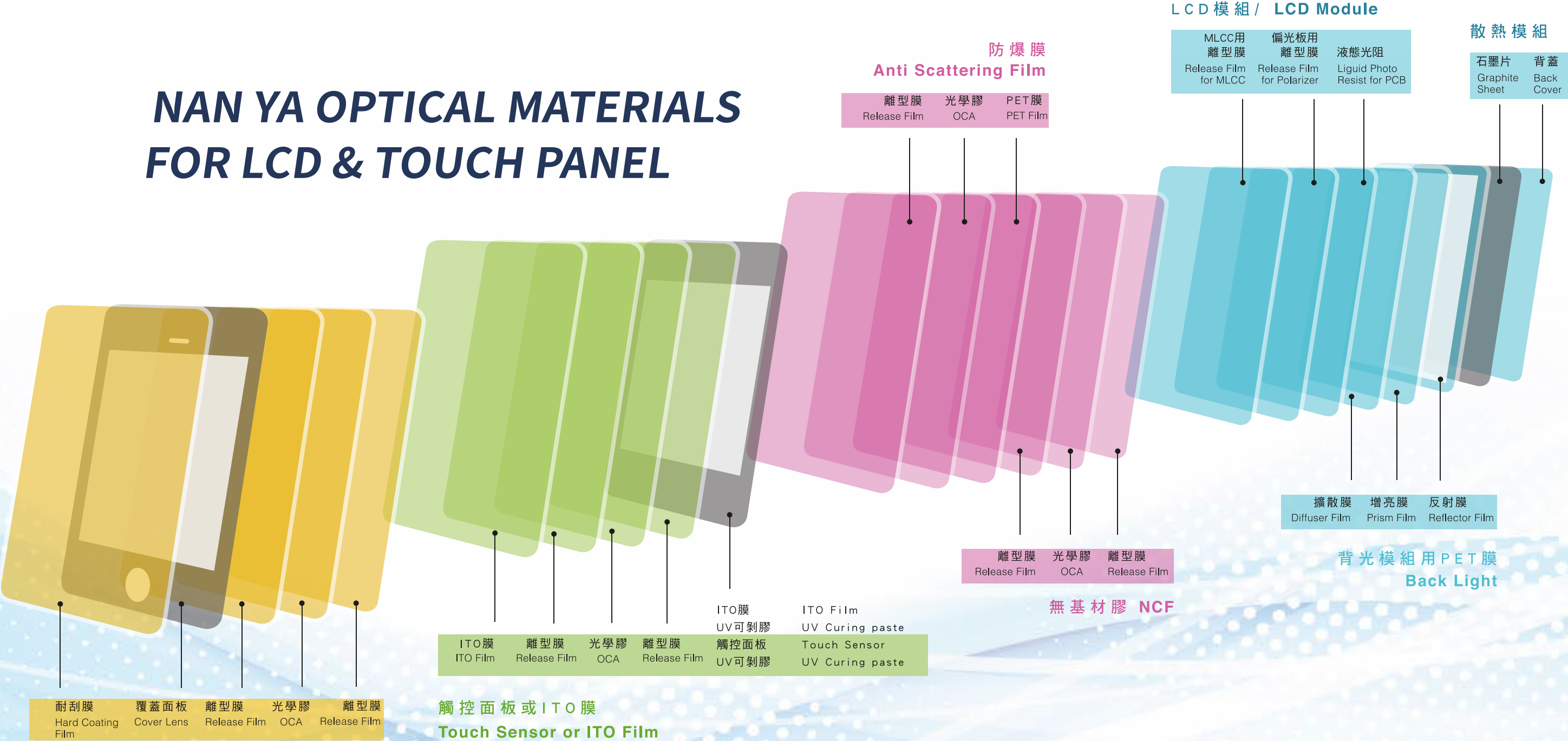


**NAN YA
PET Release Film**
*is produced from our raw materials,
and maximize values share
with our customers.*

OPTICAL MATERIALS FOR LED & TOUCH PANEL

觸控面板 & 光學膜材料

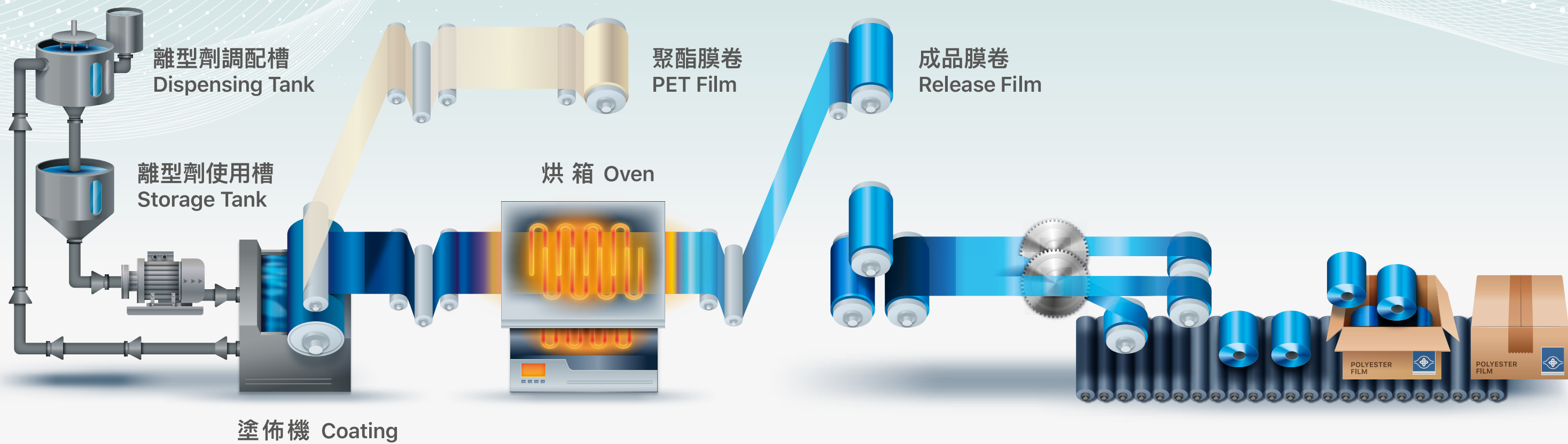
NAN YA OPTICAL MATERIALS FOR LCD & TOUCH PANEL



- ◆ 南亞提供觸控全製程材料。
NAN YA offer Total Solution for your Touch Panel.
- ◆ 組裝時，離型膜已撕除。
Release Film has been peeled during assembly process.

PROCESS OF NAN YA RELEASE FILM

南亞離型膜產品製程



- 1 離型劑調配
Release Agent
Dispensing
- 2 塗佈離型層
Coating
- 3 離型劑烘乾
Drying
- 4 半成品
卷取及熟成
Winding &
Post Curing
- 5 成品裁剪
Slitting
- 6 成品包裝
Packaging

光學透明膠用離型膜

RELEASE FILM FOR MANUFACTURE

產品特色

PRODUCT FEATURES

- 基材南亞自產: 提供最穩定品質與供應量
PET base film produced by NAN YA, offer stable supply & high quality
- 低霧度、高透明且易檢查
Low haze & high transparency & good for inspection of UV OCA / OCA / OPSA / TOA
- 厚度、離型力可多樣選擇與搭配
Wide range of thickness & release
- 無塵室生產: 確保高品質
Manufactured in clean room

產品結構&應用

PRODUCT STRUCTURE OF OCA



物性 PROPERTIES

項目 Item	實測值 Measured Values
離型膜厚度 Thickness(μm)	38 / 50 / 75 / 100 / 125
離型力 Release Strength	極輕Very Light / 輕 Light / 中 Medium / 重 Heavy
低霧度 Low Haze Type(%)	<2
一般霧度 General Haze Type(%)	2~10

模切用離型膜

DIE CUTTING RELEASE FILM

產品特色

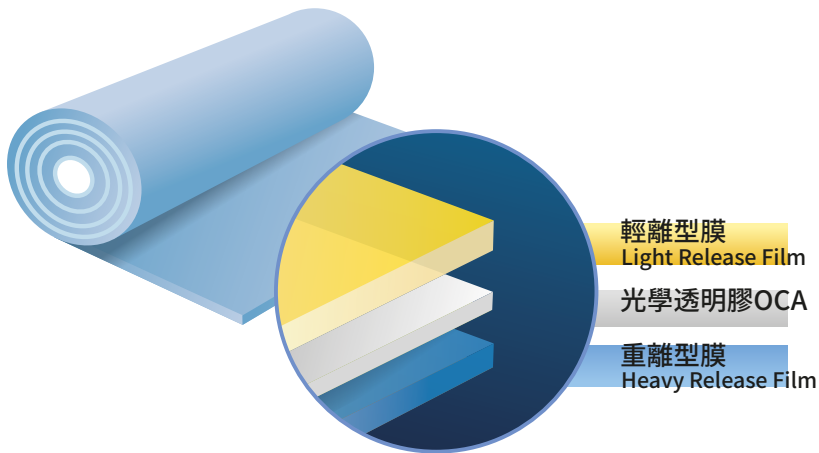
PRODUCT FEATURES

- 輕/重離型膜均可搭配抗靜電性
Optional Antistatic Treatment
- 厚度與離型力完整搭配-選擇多樣
Various Thickness & Release Strength for Choice
- 可依產品需求調整熱收縮性
Customized Heat Shrinkage
- 無塵室生產:確保高品質
Manufactured in clean room



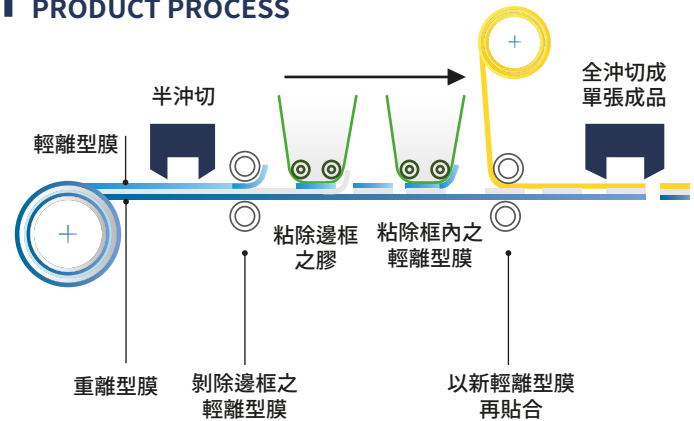
產品結構&應用

PRODUCT STRUCTURE



產品製程

PRODUCT PROCESS



物性 PROPERTIES

項目 Item	實測值 Measured Values
離型膜厚度 Thickness(μm)	25/ 38 / 50 / 75 / 100 / 125
離型力 Release Strength	極輕Very Light / 輕 Light / 中 Medium / 重 Heavy
抗靜電性 / 熱收縮率 Inside Release Strength	可搭配選用 Customized
低霧度 Low Haze	<2

保護膜用離型膜

RELEASE FILM FOR PROTECTIVE PROCESS

產品特色

PRODUCT FEATURES

- 無塵室生產潔淨度佳
Made in clean room
- 多元且穩定的離型效果
Various release strength
- 霧度低且熱收縮性穩定
Low haze & good thermo-stability

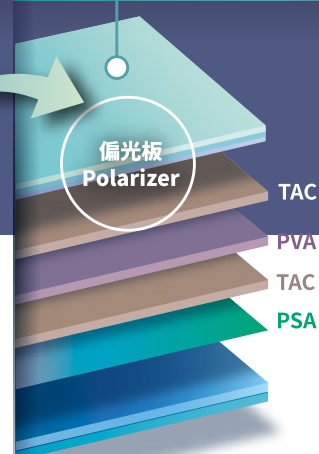


偏光板用抗靜電保護膜 Anti-static Protective Film

- 厚度均勻性佳
Good thickness uniformity
- 高潔淨度與良好膜外觀品質
High cleanness
- 依客戶需求，客製化抗靜電塗層
Customized Anti-static coating



南亞抗靜電保護膜 Nan Ya Anti-static Protective Film



終端應用 APPLICATION



物性 PROPERTIES

類別 Series	厚度 Thickness(μm)	離型力 Release Strength	殘存接著率 Release Adhesive	熱收縮性 Heat Shrinkage 150°C*30min	
				MD	TD
L1/LA/LS	25/38/50/75/100	Very Light	◎	○	◎
H3	25/38/50/75/125	Light	◎	○	◎
H6/H8	38/50/75/100/125	Medium	◎	○	◎
H9	38/50/75/100	Heavy	◎	○	◎
S7	50	for graphite only	◎	○	◎
S8	25/28/50	Very Heavy	◎	○	◎

○ 良好 ◎ 優良

偏光板用離型膜

RELEASE FILM FOR POLARIZER

產品特色

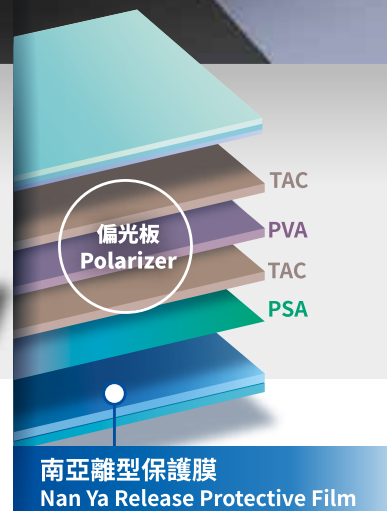
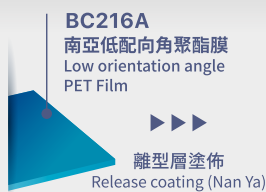
PRODUCT FEATURES

- 無塵室生產潔淨度佳
Made in clean room
- 霧度低且熱收縮性穩定
Low haze & thermo-shrinkage
- 具良好殘存接著率
Good residual adhesive

低配向角離型保護膜

Low Orientation Angle Release Protective Film

- 膜配向角 $<12^\circ$ ，適配直交檢測環境。
Orientation angle $<12^\circ$, suitable for orthogonal testing.
- 高潔淨度與良好膜外觀品質。
High cleanness.
- 依剝離力需求，客製化離型塗佈層。
Customized release coating.



終端應用 APPLICATION



太陽眼鏡
Sunglasses



車載顯示器
Car Display



手機&平板
Mobile Phone &
Tablet



液晶顯示器
Liquid Crystal
Display(LED)

物性 PROPERTIES

類別 Series	厚度 Thickness(μm)	抗眩性 Anti-Glare	離型力 Release Strength
L1	38	○	Very Light
SB/S1	38	◎	Light
LB/LC	38	◎	Light
H3	38	○	Medium
HB	38	◎	Medium

○ 良好 ◎ 優良

MLCC積層陶瓷電容器專用離型膜

RELEASE FILM FOR MLCC APPLICATION

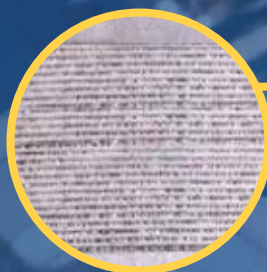
產品特色

PRODUCT FEATURES

- 搭配不同陶瓷漿料，客製化離型塗佈層
Various release formulations can match customer's slurry
- 良好膜厚均勻性，有利於多層陶瓷堆疊
Good film smooth and quality for MLCC process
- 配合陶瓷薄帶厚度，調整膜結構與表面平坦性
Nan Ya can adjust film structure or roughness for different green sheet thickness

電容器斷面SEM分析

The cross section of Capacitor
SEM analysis



塗佈的陶瓷薄帶層經過電極印刷後，將其從離型膜上剝離後再進行疊層層壓。

Release film for MLCC process (foil casting, screen printing , peel off and stacking) .

產品結構&特性

STRUCTURE & FEATURE OF PRODUCTS

	一般規格 General Grade	中階規格 Medium Grade	高 容 High Grade
	L130C	H130M	LJ31G or S131G
膜結構 Film structure	三層	三層	兩層
表面粗糙度 (非接觸式) Surface roughness (non-contact mode)	Ra = 0.02~0.03 μ m Rz = 1.0~1.3 μ m	Ra = 0.015~0.02 μ m Rz = 0.6~0.9 μ m	Ra = 0.01~0.015 μ m Rz = 0.15~0.40 μ m
Rp(500~700nm)	——	——	>5%
Rp >700nm	——	——	1%
適用漿料厚度 Applicable green thickness	7 μ m以上	2~7 μ m	1.5 μ m以下

物性 PROPERTIES

厚 度 Thickness(μ m)	離 型 力 Release Strength	平 坦 性 Uniformity	表 面 粗 度 Roughness
25 μ m	Very Light~Light	◎	◎
30 μ m	Very Light~Light	◎	◎
38 μ m	Light~Medium	◎	◎
50 μ m	Medium~Heavy	◎	○

○ 良好 ◎ 優良

雙面離型膜

DOUBLE SIDES RELEASE FILM

產品特色

PRODUCT FEATURES

- 雙面離型膜可為兩相同離型力，也可一面輕、一面重，同時可依客戶之需求賦予良好之抗靜電性

The double sides release film can be same release strength on both sides, it may also be different release strengths on each side. And if necessary, it may possess outstanding anti-static ability.

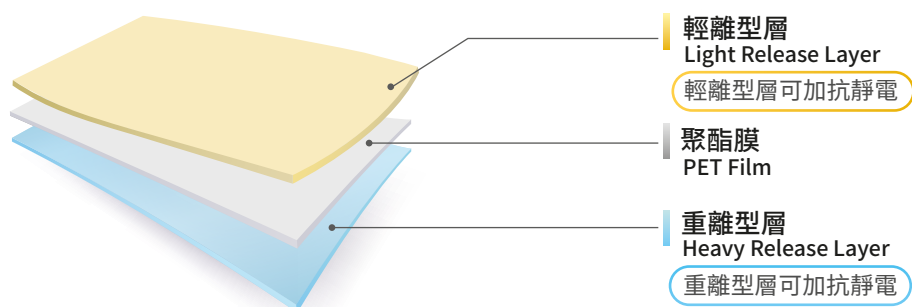
- 離型力穩定且多樣性，不同離型力雙面可互相搭配

Stable with variable range release strengths are designable on customer's request.



產品結構

PRODUCT STRUCTURE



物性 PROPERTIES

項目 Item	實測值 Measured Values					
類別 Series	R1	R2	R3	R5	R7	R9
離型膜厚度 Thickness(μm)	50/75	50/75	50/75	50/75	50	38
內離型膜力 (gf/25mm) Inside Release Strength	35	35	8	15	15	35
外離型膜力 (gf/25mm) Outside Release Strength	8	3	15	8	3	35

抗靜電離型膜

ANTI-STATIC RELEASE FILM

產品特色

PRODUCT FEATURES

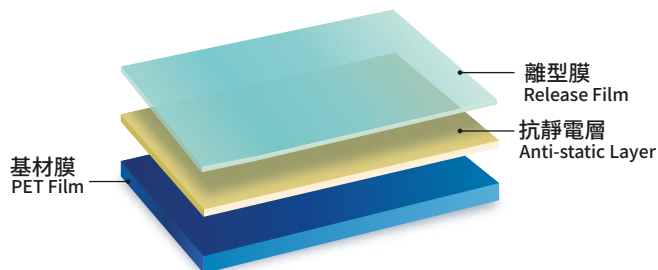
- 持久且穩定的抗靜電性
Permanent and steady anti-static feature
- 抗靜電性不受環境濕度影響
Not influenced by environmental humidity
- 抗靜電性可依客戶之需求塗在離型面或在非離型面
Anti-static feature can be on Release side or on Non-Release side
- 膜厚度與離型力完整搭配、選擇多樣化
Variable thickness & release strength for choice



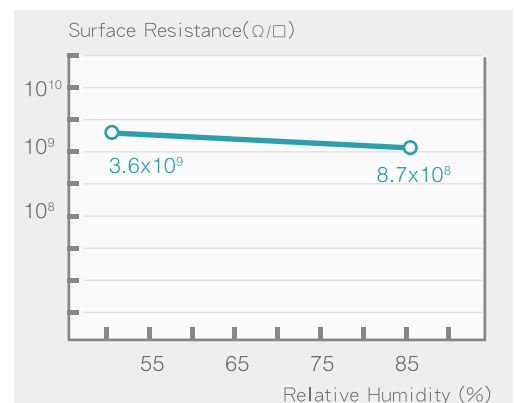
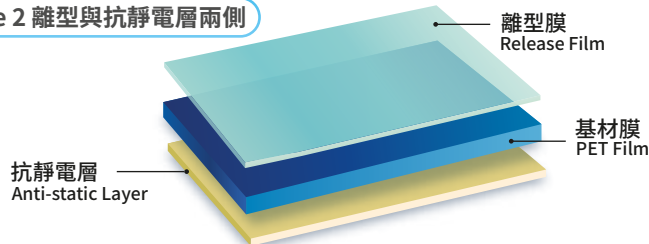
產品結構

PRODUCT STRUCTURE

Type 1 離型與抗靜電層同側



Type 2 離型與抗靜電層兩側



物性 PROPERTIES

項目 Item	實測值 Measured Values
離型膜厚度 Thickness(μm)	25 / 38 / 50 / 75 / 100 / 125
離型力 Release Strength	極輕Very Light / 輕 Light / 中 Medium / 重 Heavy
表面抗阻 ($\Omega/\square$) Surface Roughness(μm)	$10^9 \sim 10^{11}$

霧面離型膜

MATTE RELEASE FILM

產品特色

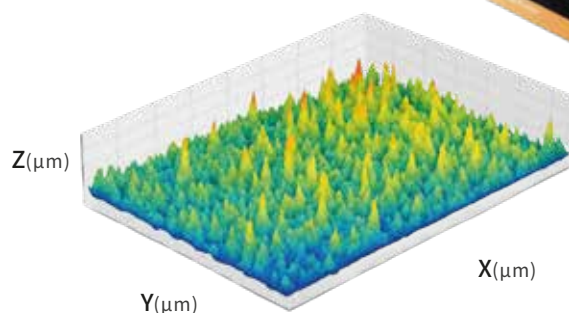
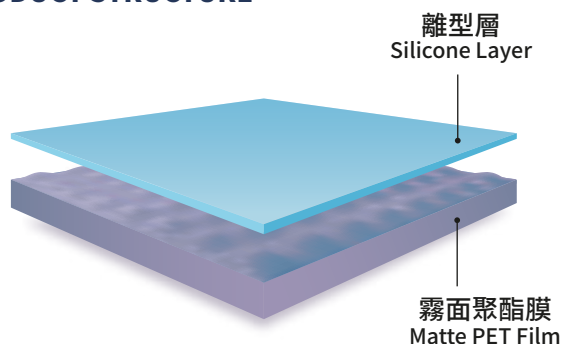
PRODUCT FEATURES

- 表面粗度大，熱壓加工時排氣效果佳
High roughness makes air release easily during laminate and hot press
- 離型轉寫之表面具消光柔和效果
A dull, lusterless vision effect can be shown on transfered surface
- 耐熱性佳，可耐長時間之高溫、高壓加工
Goof possesses thermal durability for hot press
- 兩種表面粗度及不同離型力供選擇
Two kinds of rough values and variable release strengths for choice



產品結構

PRODUCT STRUCTURE



終端應用 APPLICATION



光學與顯示產業
Optics & Display



印刷與包裝
Printing & Packaging



廣告與裝飾材料
Advertising & Decoration



電子產品製程
Electronics Manufacturing

物性 PROPERTIES

項目 Item	實測值 Measured Values
離型膜厚度 Thickness(μm)	38 / 50
離型力 Release Strength	輕 Light / 中 Medium / 重 Heavy
表面粗度 Surface Roughness(μm)	高粗度 High Rounghness: SRz=6.7μ, SRa=0.56μ 中粗度 Medium Rounghness: SRz=3.2μ, SRa=0.30μ

ABF載板壓合用載膜

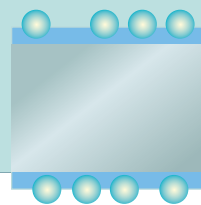
CARRIER FILM FOR ABF PROCESS

產品特色

PRODUCT FEATURES

- 控制膜平均表面粗度 $4.5\mu\text{m}$ ，真空壓合時能順利排氣
Precisely control film roughness between $4.5\mu\text{m}$ to good exhaust properties after vacuum press
- 膜表面清潔度高， $150\mu\text{m}$ 以上異物數量小於1顆/平方米
Film is high quality clean, the defect of above $150\mu\text{m}$ were less than 1 grain/ SM
- 100°C 熱壓 (1分鐘) 不脆裂
Film no crack after hot press (100°C 1 min)

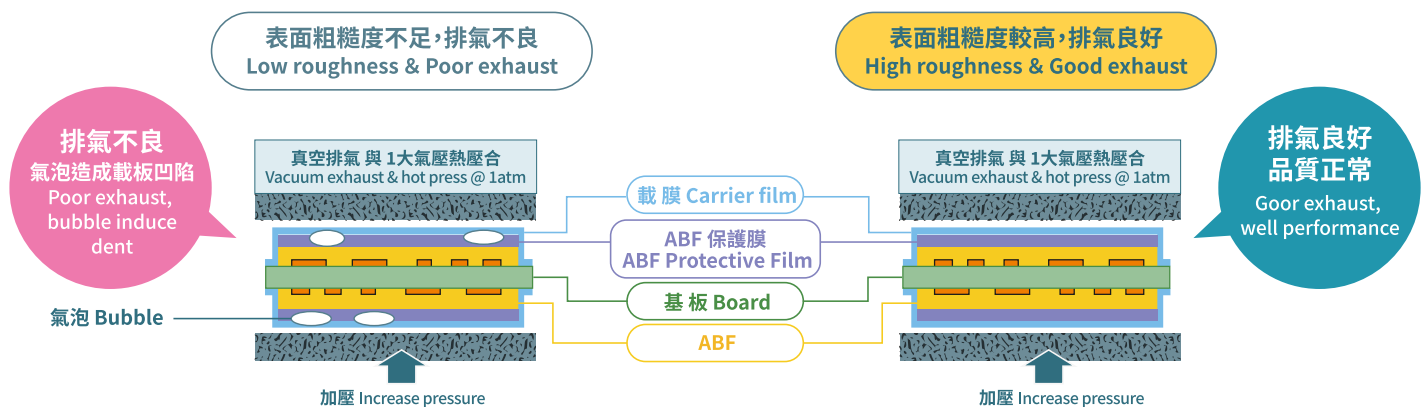
南亞ABF用載膜 NAN YA Carrier film for ABF



膜表面使用高分散性與高聚酯親和性粒子
Use highly dispersible and polyester-affinity particles at film surface.

ABF載板壓合製程

ABF MANUFACTURE PROCESS



物性 PROPERTIES

項目 Item	實測值 Measured Values
離型膜厚度 Thickness(μm)	25
離型力 Release Strength	雙面離型/重 Double Sides Release Film/ Heavy
表面粗糙度 Surface Roughness(μm)	Ra= $0.3\mu\text{m}$ Rz= $5.63\mu\text{m}$

非矽離型膜

NON-SILICONE PET RELEASE FILM

產品特色

PRODUCT FEATURES

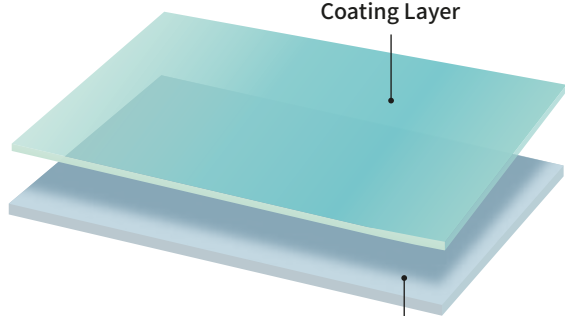
- 能夠與壓克力系、環氧樹脂等不同種類貼合膠，保持適度及穩定的剝離力
Stable peeling force with PSA, such as acrylic or epoxy polyer
- 水接觸角低，適合塗佈各種溶液，包括溶劑或水性型樹脂
Water contact angle is lower enough and suitable for coating with solvent base or water soulable resin
- 針對甲乙酮、甲苯、乙酸乙酯等具良好耐溶劑性
Stably resist to solvents such as MEK, toluene, ethyl acetate



產品結構

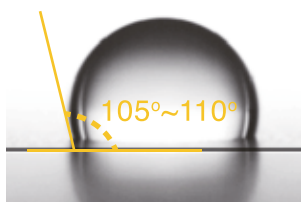
PRODUCT STRUCTURE

非矽離型層
Non-Silicone
Coating Layer

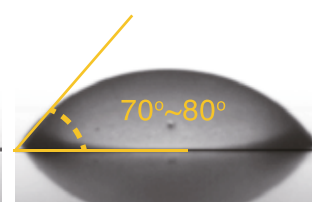


PET膜
PET Film

水接觸角測試 Water Contact Angle Test



Silicone Type-Coating



Non-Silicone Type-Coating

非矽的水接觸角<100°
Water contact angle of non-silicon material < 100°

終端應用 APPLICATION



電子與半導體產業
Electronics &
Semiconductors



光學與顯示產業
Optics & Display



醫療與生物科技
Medical & Biotech



高端膠帶與黏著製品
Advanced Tapes &
Adhesives



食品包裝
Food Packaging

規格 PECIFICATION

型號 Model	N2	N5	N7	NA	NB	NU	NV
離型力 Nitto 31B Release Strength (g/25mm)	150	400	35	150	35	60	150

白色離型膜

WHITE RELEASE FILM

產品特色

PRODUCT FEATURES

特殊雙軸伸技術

Special Biaxial Stretching Technology

白色不透光

Opaque White

膜厚均勻性佳

Excellent Thickness Uniformity

精細多孔洞輕量化

Lightweight with Fine Porosity

高反射性

High Reflectivity



電顯斷面

印刷效果

PRODUCT STRUCTURE OF OCA

- ✓ 圖像平整無毛邊
Smooth Image Output with No Burrs
- ✓ 膠帶黏貼無剝落
Tape Adheres Firmly Without Peeling
- ✓ 送紙無卡紙
Jam-Free Paper Feeding

- ✓ 指紋不沾黏
Fingerprint-Resistant Surface
- ✓ 飽和度佳
Excellent Color Saturation
- ✓ 沾水搓揉不掉色
Water-Rub Resistant Colors

成像比較 Image Comparison



雷射印表機
Laser Printer

數位印刷
Digital Printing

PET合成紙應用

APPLICATIONS OF PET SYNTHETIC PAPER



標籤
Labels



相紙
Photo Paper



海報
Posters



傳單
Flyers



月曆
Calendars

物性 PROPERTIES

項目 Item	實測值 Measured Values
顏色 Color	白色 White
離型膜厚度 Thickness(μm)	38/50
離型力 Release Strength	極輕 Very Light / 輕 Light / 中 Medium / 重 Heavy
表面抗阻 Surface Resistance (Ω/□)	10 ⁹ (Optioned)

耐熱離型膜

HEAT-RESISTANCE RELEASE FILM

產品特色

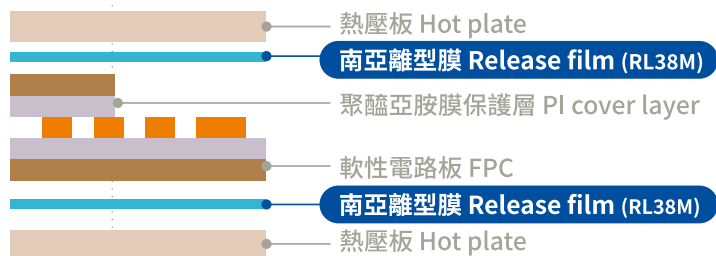
PRODUCT FEATURES

- 適當的膜平均表面粗度，使客戶壓合後離型膜剝除能順利排氣
Proper film roughness for exhaust after pressing process
- 離型膜低的矽轉移量，壓合後沒有Si轉移到軟板
No Si transfer to FPC after pressing process
- 高溫高壓壓合製程下，離型膜具有良好離型性並且不會脆裂
Release film still have good releasing properties and no crack after pressing process (high temp. and pressure)



軟板壓合製程

PROCESS OF FPC PRESS



壓合條件 PRESS CONDITIONS

180°C, 100sec, 10~20Kgf/cm², Vacuum quick press

應用 APPLICATION



PCB硬板
(傳統壓合機)
PCB



FPCB軟板
(快壓機)
FPCB



電池隔離膜/
ITO用耐熱膜
Battery Separator Film/
ITO Thermal Film

物性 PROPERTIES

項目 Item	實測值 Measured Values			
類別 Series	Silicone	Non-Silicone	Silicone	Non-Silicone
離型膜厚度 Thickness(μm)	25		50	
單面離型 Single-Sided Release	○	○	○	○
雙面離型 Double-Sided Release			○	
Thermal Heat Shrinkage MD%	0.74		0.59	
150°C x 30min TD%	0.03		-0.03	

熱可塑性聚氨酯離型膜

THERMOPLASTIC POLYURETHANES RELEASE FILM

產品特色

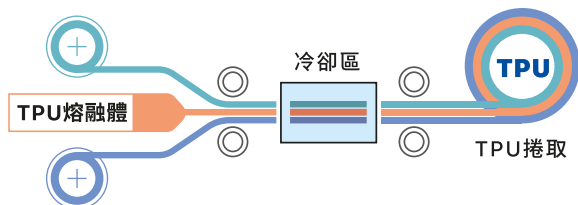
PRODUCT FEATURES

- 可依產品需求調控表面粗糙度與離型力
Adjustable roughness and release force
- 優異的膜平整性與加工性
Excellent Film Flatness and Processability
- 高清潔度與良好膜外觀品質
High Cleanliness & Good Film Appearance

產品製程 & 結構

PRODUCT PROCESS & STRUCTURE

南亞離型膜(輕離型)



南亞離型膜(重離型)

TPU 兩面使用
超透明亮面離型膜保護

50 或 75μm 亮面離型膜 (BH216)
TPU
50μm亮面離型膜 (BH216)

TPU 使用一面亮面與單張膜

同時具一面超透明亮面與
一面霧面離型膜保護

50 或 75μm 亮面離型膜 (BH216)
TPU
50μm離型膜 (DM11D) 單面霧 / 單面亮

應用 APPLICATION



汽車車衣
Car Wrap Film



手機水凝膜
Hydrogel Screen Protector

物性 PROPERTIES

項目 Item	實測值 Measured Values
離型膜厚度 Thickness(μm)	38 / 50 / 75 / 100 / 125
離型劑種類 / 熱收縮率 Type of Release Agent / Release Agent Type	可搭配選用 Customized
霧度 Haze	可搭配選用 Customized

半導體晶圓研磨膠帶用膜

BACK GRINDING FILM

產品特色

PRODUCT FEATURES

抗靜電塗層 ANTI-STATIC(AS) LAYER

塗層不含氟、氯、硫元素，表面阻抗 $<10^9$ 歐姆/平方
The AS layer don't have F、Cl、S elements and surface resistance below $10^9 \Omega/\text{sq}$

EVA 接著層 EVA LAYER

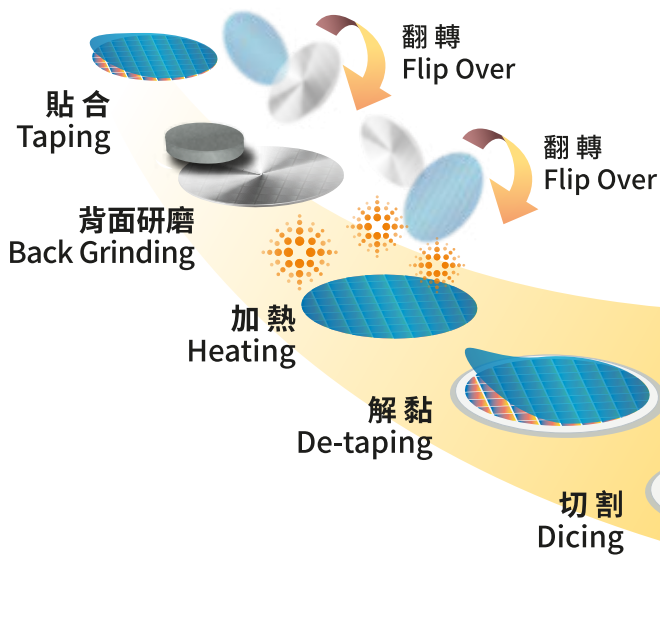
160°C 與客戶烯烴膜貼合黏著力 >15 牛頓
the adhesion between coating layer and customer olefin film above 15N at 160°C

晶圓研磨製程

BACK GRINDING PROCESS

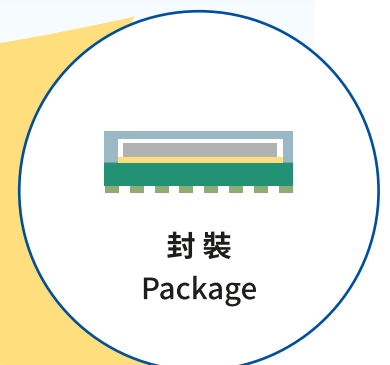
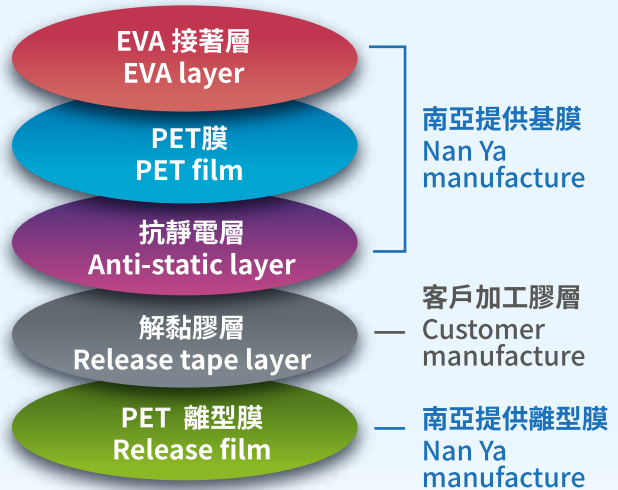
晶圓研磨膠帶貼合晶圓以進行研磨處理，完成後再加熱解黏撕除膠帶，以將晶圓黏合於基材進行封裝。

Back Grinding tape laminate wafer to do the back grinding process then heating to peel off the tape, allowing the wafer to bonded to the base for packaging.



晶圓研磨膠帶

(背面研磨膠帶, Back Grinding Tape, BG Tape)



NAN YA RELEASE FILM
PRODUCT MAP

Release Strength Application	Very Low	Low	Medium	Medium-Heavy	Heavy	Very Heavy
AB Glue		L138A				
ACF / HT185°C		E750Y / L125A	H325A		E750Y	
ACF / LT140°C						S838A
ASF		L125A / L150A	H325A/ H375A			
Car Window		SX19X / SX36X SX23H	H325H			
Dicing Tape	LS25A	L125A /H338A				
Filter		LL38H			H950A / R938A	
Graphite Sheet						S750A
Lambda Sensor / Ceramic PCB			H318A		H918A	L718A
Matte Film			N350R		H950L / H950M	S838A
Medical Tape		L138A / L150A L1A0A			H950A	
MLCC	LJ31G	L130C / S130C L138A / L150A	H330C / H338A H350L	H838A	H950A / N630E	
MLCI		L150L / L238L	H350A	H838A	H938A / H950A H950L / N630E	
Membrane Keyboard		R750W		R750W		
Metal Tape	LA75A			H850A		
OCA	LN75A / T650V LA75A / E338A	L138A / L150A L175A / LH50A	H350A / H375A	H675A / H875A / S3A03 H850A / U175A		
Protective Film		L125A / L138A L150A / E150A	H338A / H350A HC50A		H950A / H950L	S838A
Support Sheet	LDC5L					
TFT LCD		L138B / LY28B SY19F				
TN / STN LCD		S138A / L138A	SB38A / H338A			
Thermal Conductive Adhesive for LED		LT75A		H850A	H950A	S838A
TPU		LA75M / RU75M	NV50V	N650A / NV50A	HW50H	
Anti-Static Film		GV38X / GA30P				
Recyclable Release Film	YN38P/Y905P	Y125P	Y338P	YJ75P/YT75P		

產品認證 Product Certification



ISO 14001
BSMI
經認證
REGISTERED



OHSAS 18001
BSMI
經認證
REGISTERED



TOSHMS
BSMI
經認證
REGISTERED



TAF
Environmental Management
EC 002



IAF
EMS 010



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