

# 永寬化學排線補強膠材介紹

永寬化學

研發一部 李暉旭

TEL:886-5-557-4717 ext 251

FAX:886-5-557-4719

URL:[www.everwide.com.tw](http://www.everwide.com.tw)

E-mail: [huei@everwide.com.tw](mailto:huei@everwide.com.tw)



Everwide On-line:  
[www.everwide.com.tw](http://www.everwide.com.tw)



# 排線補強內容

PVC材質(Polyvinyl chloride)

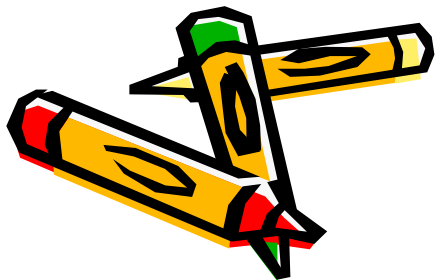
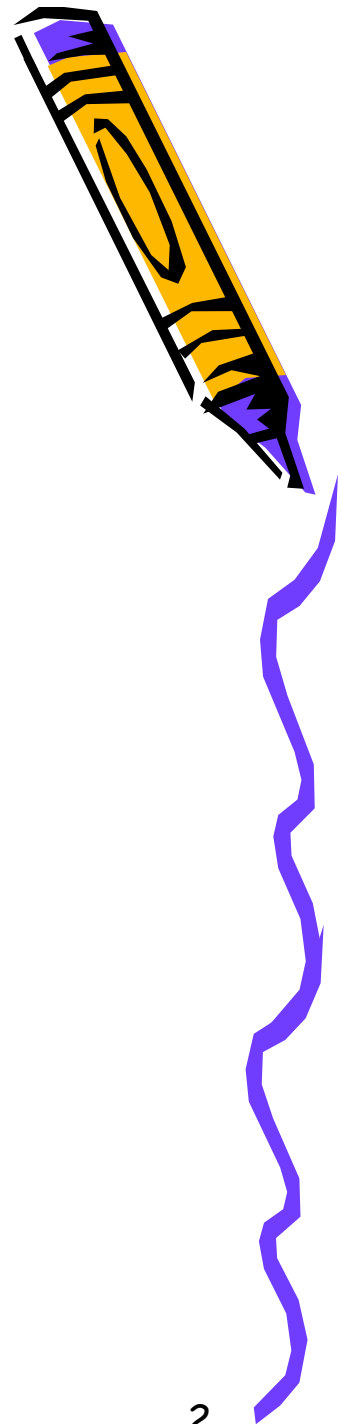
- PVC連接器(Connector)對金屬殼

PE, Nylon材質

- 環保材料不含Cl

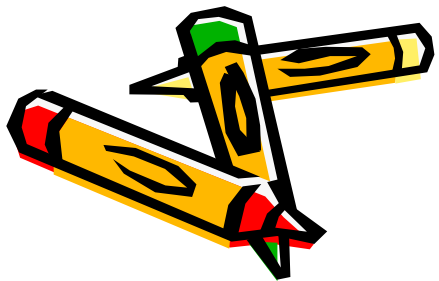
FPC材質

- 面板上常用軟板材質



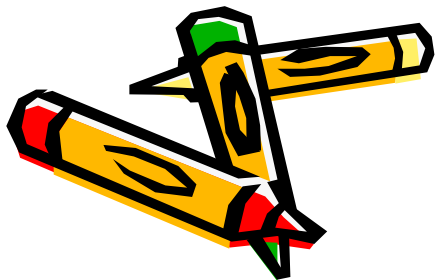
# PVC線材

- 應用於PVC線材與金屬殼間補強
- 可用熱融膠
- 推薦膠材: 9330 UV排線補強



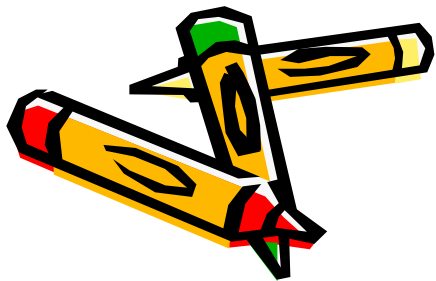
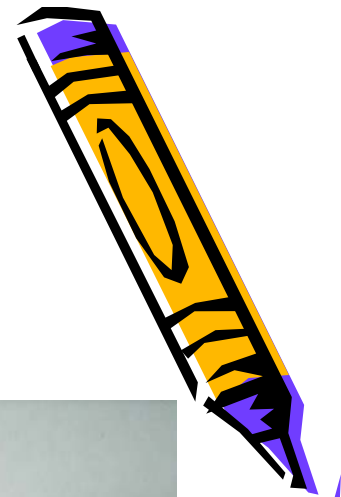
# PE/Nylon線材

- 問題點:PE, Nylon屬於難黏材質,建議搭配表面處理(如corona),較容易找到合適的UV
- 推薦膠材: FP246, FP254 Nylon接著UV



# FPC軟板

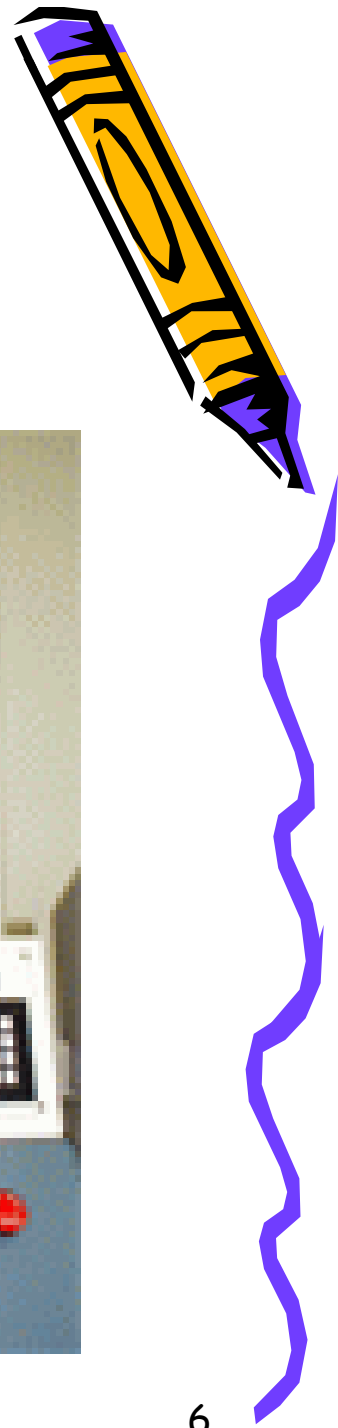
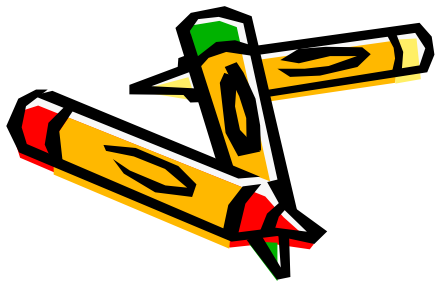
- 應用於LCD Panel上軟板與玻璃之間補強,需具有良好的絕緣性與耐水性,使水氣不會透過膠線攻擊顯示元件,並防止導通精線氧化
- 推薦膠材: **FG113 UV**



# 排線補強膠的測試 拉力

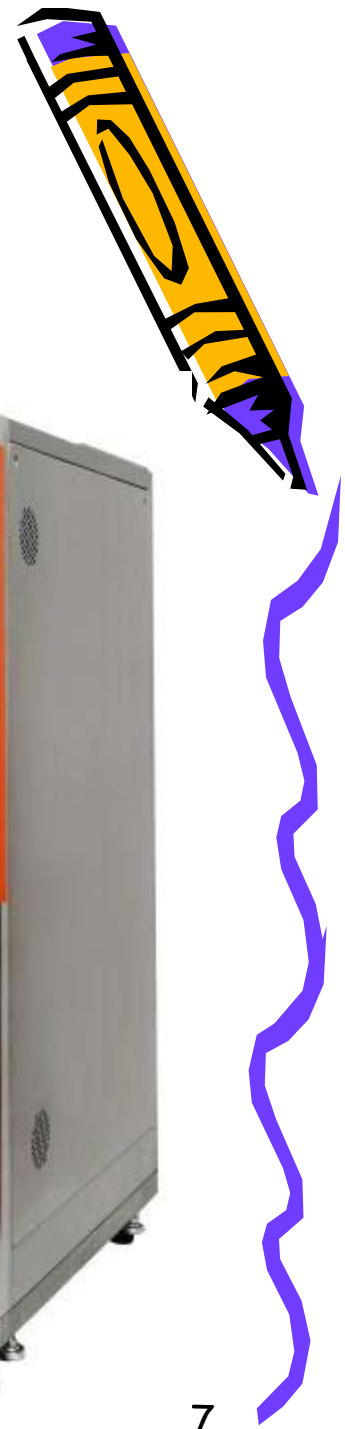
拉力測試:

- **PVC**排線的正向拉拔力超過**10 kg**以上, 膠材不會脫離**PVC**
- 在**FPC/Glass**的應用上, 拉力會造成玻璃基板破裂



# 排線補強膠的測試

## 高溫高濕測試



高溫高濕:

PVC排線:

85°C 85RH 48小時

Panel產業:

60°C 90RH 500小時



# 排線補強膠的測試

## 溫度震盪測試

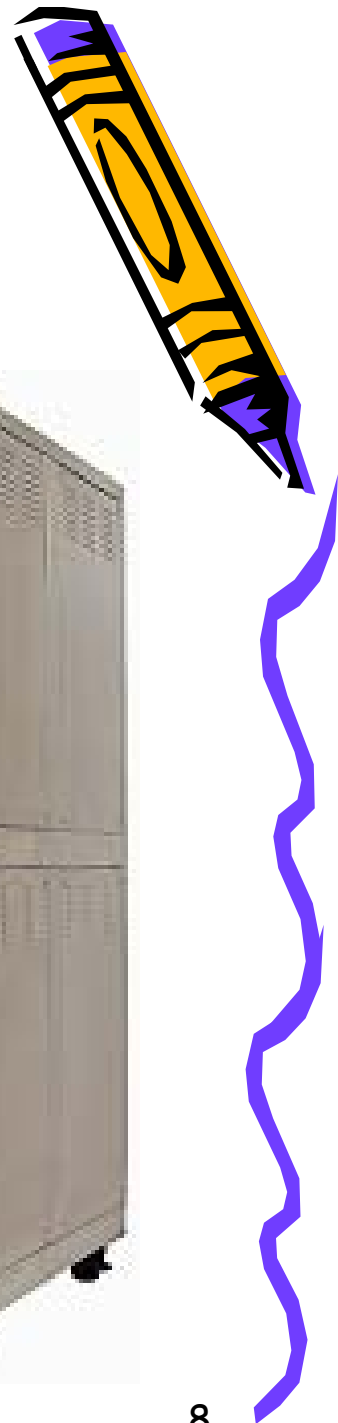
溫度震盪:

PVC排線:

-20°C ~ 80°C 48 cycle

Panel產業:

-40°C ~ 80°C 500 cycle

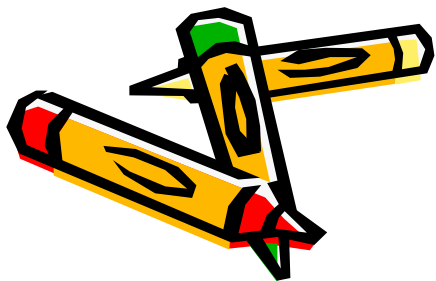




# 排線補強膠測試 SGS 認證

符合歐盟規定

RoHS (Restriction of Hazard Substance) 規範不含 Cr6+, Cd, Hg, Pb, 不含耐燃劑 PBB, PBBE)



## SGS

### Test Report

EVERWIDE CHEMICAL CO.  
36, TOUKUNG 6 RD, TOULIU CITY, YUN LIN HSIEN (640),  
TAIWAN

Report No. : CE/2005/35206C  
Date : 2005/03/30  
Page : 2 of 3

#### Test Result

PART NAME NO.1 : TRANSPARENT GLUE (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				No.1
PBBs (Polybrominated biphenyls) (CAS NO:059536-65-1)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs (PBDEs) (Polybrominated biphenyl ethers)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit

The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

SGS TAIWAN LIMITED | NO. 136-1, Wu Kung Road, WuFu Industrial Zone, Taipei county, Taiwan.  
8866-2) 22962626 (8866-2) 2299-3237 www.sgs.com.tw

# 排線補強膠材9330介紹



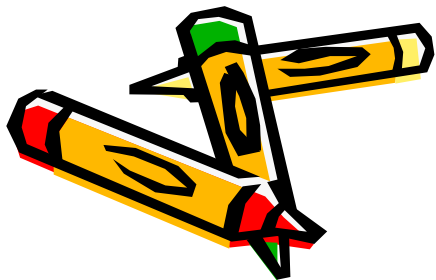
施膠方式: 點膠

黏度: 25000 cps

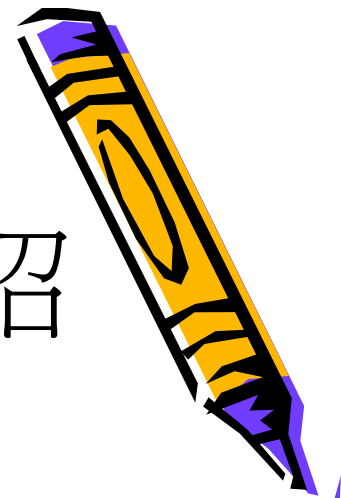
UV能量需求: 1000 mJ

膠材特色:

- 沾膠稀稠度適宜,太稠會造成拉絲,太稀則會滲漏入連接器裡面照不乾
- 已通過拉力,環境,SGS測試



# 排線補強膠(FPC用) FG113介紹



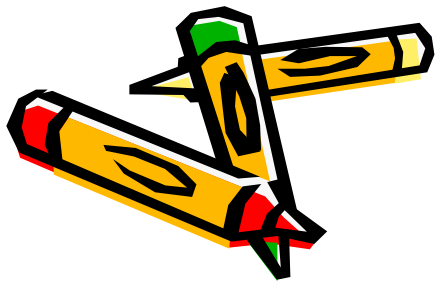
施膠方式: 點膠

黏度: 8000 cps

UV能量需求: 1000 mJ

膠材特色:

- 點膠用,具柔韌性,可耐拉伸,扭力破壞,具有極優的耐水性能,在高溫高濕下防止水氣穿透,延長面板使用效能,並防止導通精線氧化
- 已通過拉力,環境,SGS測試



# 與我們連繫

如需樣品,請以下列方式與我們聯絡

台灣(北部): 永寬化學中壢營業所

Tel: 03-434-2833 Fax: 03-434-2835

台灣(南部): 永寬化學總公司

Tel: 05-557-4717 Fax: 05-557-4719

