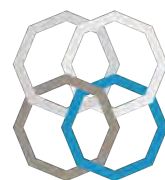


We're Here Today for Tomorrow

TAIYO PRODUCT LINEUP



Distributed by:
ventec
INTERNATIONAL GROUP

AUTOMOTIVE

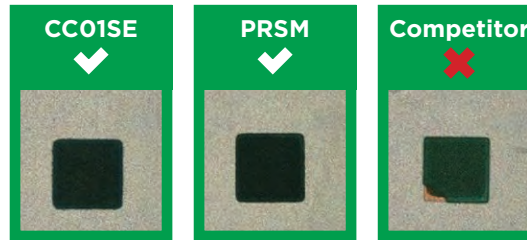
BY TAIYO

PSR-4000 CC01SE SERIES

- ✔ Curtain Coat, Spray and Screen Print
- ✔ Excellent Crack Resistance / High Temperature Resistance
- ✔ Available in Green and Black
- ✔ Excellent Resistance to ENIG and Immersion Tin



120 mJ on a LEDIA



Immersion Tin Results

PSR-4000 AM SERIES AM03, AM05, AM81

- ✔ Excellent Adhesion under High Temperature Environment
- ✔ Thermal Cycling Crack Resistance
- ✔ Excellent Solder Dam Shape
- ✔ Low Outgassing



Insulation resistance:
3.2E12Ω



Insulation resistance:
<1.0E7Ω

PSR-4000 CR01MW

- ✔ Bright White
- ✔ Excellent Crack Resistance
- ✔ Matte Finish
- ✔ Low Image Growth
- ✔ Excellent Chemical Resistance



PSR-4000 CR01MW after ENIG

NEW

PSR-4000 HH01XR

- ✔ Screen Print or Spray Application
- ✔ Resistant to Extreme Temperatures of 200°C for 2000 Hours
- ✔ Designed Specifically for The Latest DI Equipment
- ✔ Wide Processing Window

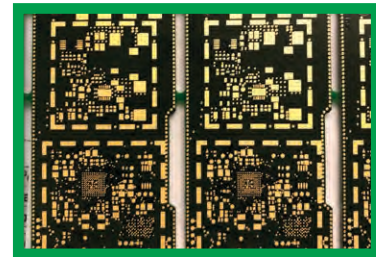
INKJET SOLDER MASK

BY TAIYO

SOLDER MASK

IJSR-4000 JM SERIES

- ④ JMO2DG, JMO3G, JM02E
 - Excellent Processing
 - Available in Multiple Colors
 - Available for Rigid and Flex



IJSR-4000 JM03G

LEGEND INK

IJR-4000 SERIES

- ④ IJR-4000 FW100 / FW200
 - Flexible White Legend Ink
- ④ IJR-4000 LW100
 - Rigid White Legend Ink cured by LED
- ④ IJR-4000 MW300 / MW301
 - Rigid White Legend Ink



IJR-4000 MW300

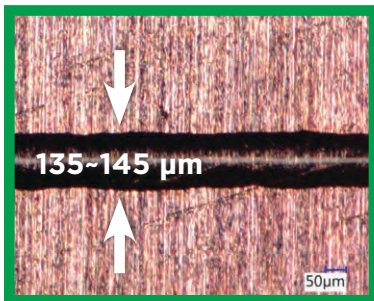


IJR-4000 FW100

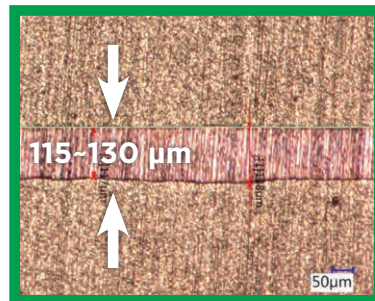
ETCH / PLATING RESIST

IJR-3000 SERIES

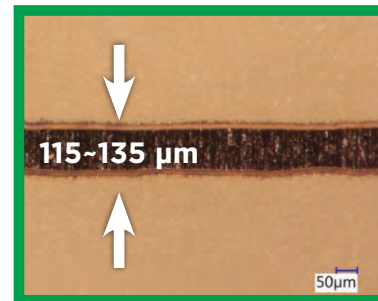
- ④ GE100 / BE100
 - Acid Etch Resist
 - Easy Stripping



After Printing



After ENIG and Stripping



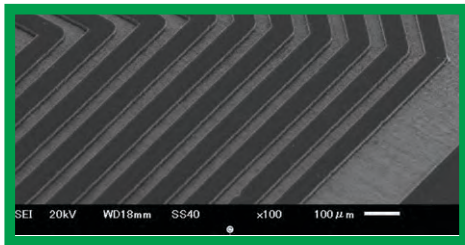
After Cu Etching

FLEX SOLDER MASK

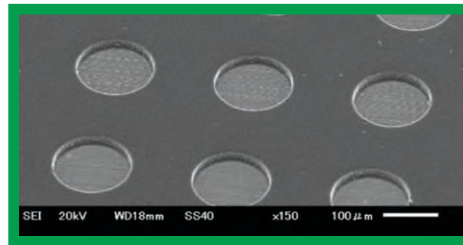
BY TAIYO

FLEXFINER SERIES

- Flexible Photoimageable Solder Mask
- Available in 25 μ m, 30 μ m and 40 μ m Thicknesses
- Excellent Chemical Resistance



L/S=50/50 μ m



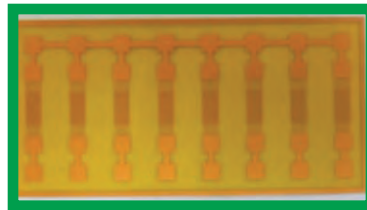
ϕ 100 μ m

PSR-9000 FLX SERIES

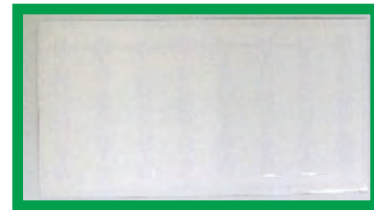
- Available in Green, Amber and White
- UL - VTM-0
- Excellent ENIG Resistance
- Flexible throughout the Process



PSR-9000 FLX03G LDI



PSR-9000 FLX03A



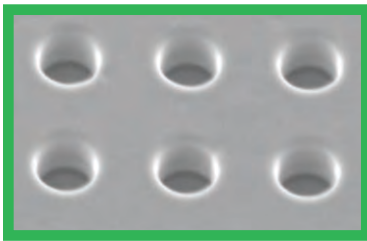
PSR-9000 FLX05W

BUILD-UP MATERIAL

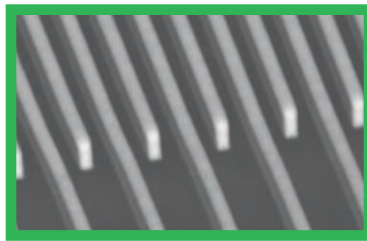
BY TAIYO

PVI-3 HR100

- ✔ Photoimageable Dielectric
- ✔ For Fine Line and Small Openings
- ✔ Excellent Surface Flatness
- ✔ Halogen-free



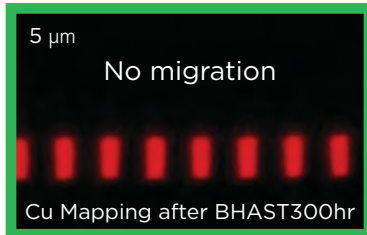
6 μ m via/10 μ m Thickness



Insulation BHAST

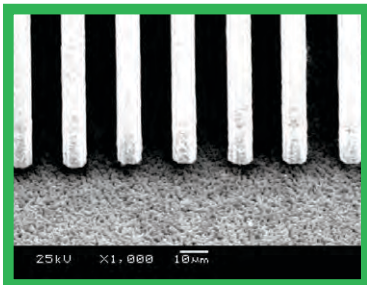


Cross Section View (L/S = 2 μ m / 2 μ m) 130°C, 85% RH, 5V

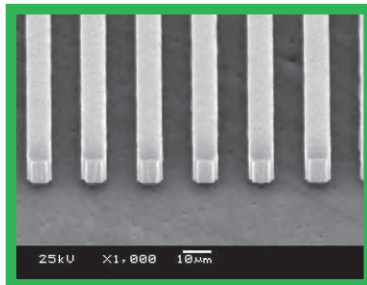


ZARISTO

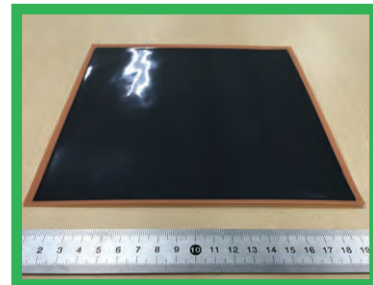
- ✔ Thermal Cure Dielectric Dry Film
- ✔ CO₂ Laser Ablation
- ✔ Excellent Peel Strength
- ✔ High Tg



Conventional BUM DF



Zaristo 125, 12 μ m Copper



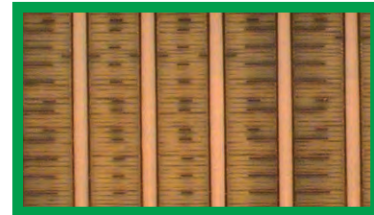
Zaristo Has No Warpage



BY TAIYO

THP-100 DX1 VF(HV)

- ✔ Excellent Filling Characteristics for Large Holes
- ✔ 100% Solids, Low Shrinkage



THP-100 DX1 VF (HV)

NEW

THP-100 DX1 HTG/HTG(LV)

- ✔ Highest TG (173°C) Available on the Market
- ✔ Low CTE (19/55)
- ✔ Low Viscosity Version for High Aspect Ratio HTG(LV)



THP-100 DX1 (HTG)

THP-100 Z SERIES

- ✔ Short Curing Time
- ✔ Excellent Filling on High Aspect Ratio Panels

THP-100 Z2GF - GAP FILLING MATERIAL

- ✔ Low Warpage: Suitable for High Circuit PCB Designs
- ✔ Solvent Free: Voids are Less Likely to Occur
- ✔ Good Defoaming Property
- ✔ Excellent Printing Reliability



Z2GF

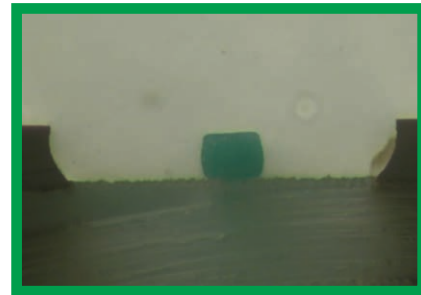
Conventional

DIRECT IMAGING

BY TAIYO

PSR-4000 GP01EU DI SERIES

- ✔ Designed for the Latest DI Equipment
- ✔ Maintains Same UL as Standard PSR-4000 GP01EU
- ✔ Excellent ENIG and Immersion Tin Resistance
- ✔ Screen Print and Spray Application



PSR-4000 GP01EU DI
2 Mil Dam Exposed at 120 mJ

PSR-4000 BW01DI

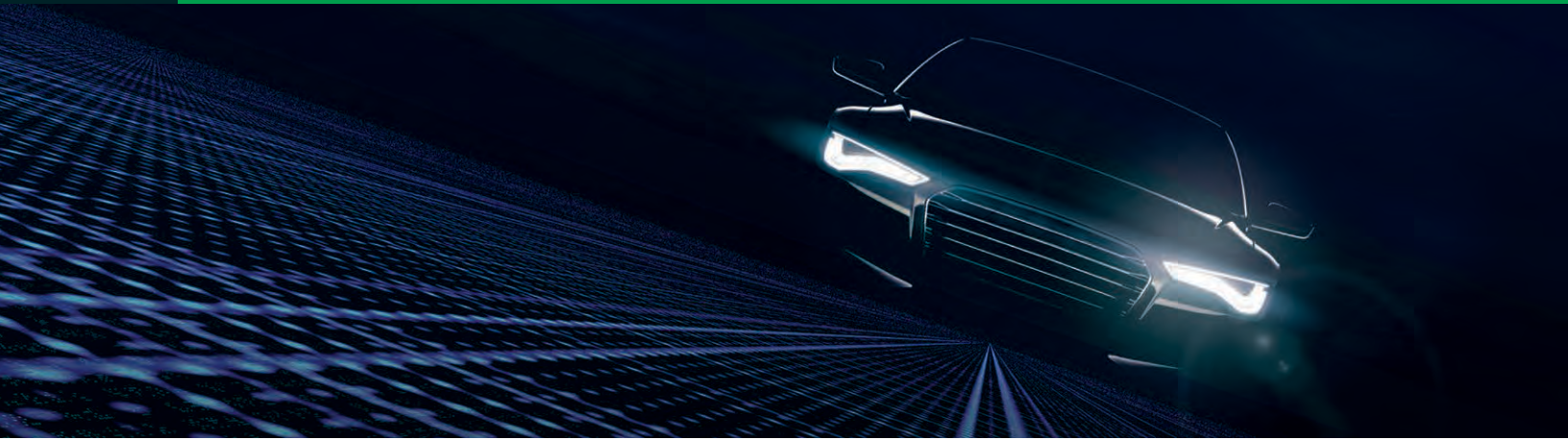
- ✔ Specifically Designed for the Latest DI Equipment
- ✔ Extremely Fast Photospeed < 80 mJ
- ✔ Straight Side Walls
- ✔ Excellent ENIG and Immersion Tin Resistance



PSR-4000 BW01DI
2 Mil Dam Exposed at 80 mJ

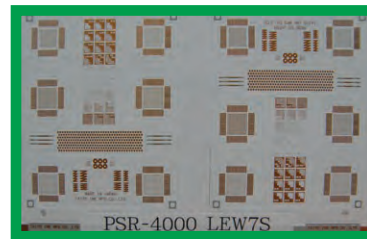
PSR-4000 CC01SE DI

- ✔ Curtain Coat, Spray and Screen Print
- ✔ Excellent Crack Resistance / High Temperature Resistance
- ✔ Available in Green and Black
- ✔ Excellent Resistance to ENIG and Immersion Tin



HIGH REFLECTIVITY

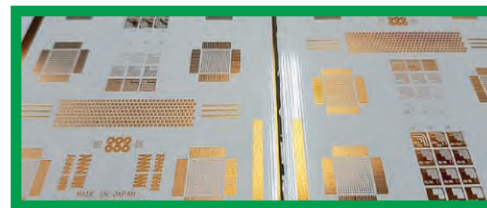
- ✔ PSR-4000 LEW Series
 - DI Version Available
 - Bright White
 - High Reflectivity
 - LEW7S is Sulfur-free



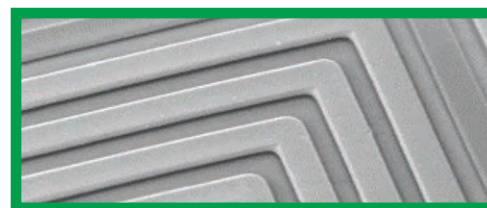
PSR-4000 LEW7S

PSR-400 WD17NB

- ✔ Darkfield Surface Reflectance (DFSR) for Mini LED
- ✔ OLED & LED Lighting Applications
- ✔ Good Flatness, Uniformal Thickness
- ✔ High Reflection
(Reflectance Y value: 92-93)
- ✔ RoHS and Halogen-free
- ✔ Sulfur-free



PSR-400 WD17NB TRO01



Line & Space: 70 / 70 (μm)

FLEXIBILITY

- ✔ PSR-9000 FLX 05W / W2
 - Highly Flexible
 - Bright White
 - FLX05W is UL - VTM-0



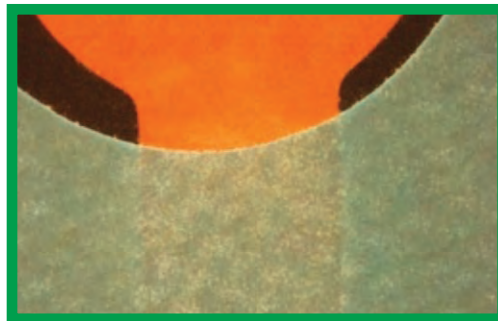
HIGH HEAT

BY TAIYO



PSR-4000 HH01XR

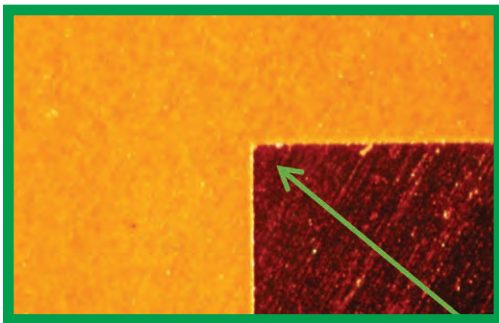
- ✔ Extreme High Heat Resistance
- ✔ Excellent Hot Storage
- ✔ Resistance to Thermal Cycling
- ✔ Resistant to ENIG and Immersion Tin



TCT (-65°C <-> 150°C - 1500 cycles)

PSR-4000 CC01SE

- ✔ Excellent Heat Resistance for a Solder Mask
- ✔ Withstands 200°C for 2000 hours



200°C for 2000 Hours; No Cracking on Copper or Laminate



LPI PSR-4000 AUS AZ SERIES AZ1 & AZ3

- ✔ High Crack Resistance
- ✔ High Temp. Resistance (3500H @ 175°C)
- ✔ High Resolution (30µm SRO)

TST 1000 cycles



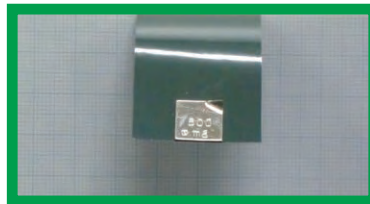
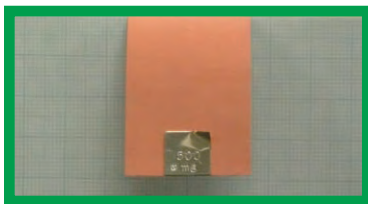
AZ Series



Conventional

DRYFILM SOLDER MASK SERIES PSR-800 AUS SR1

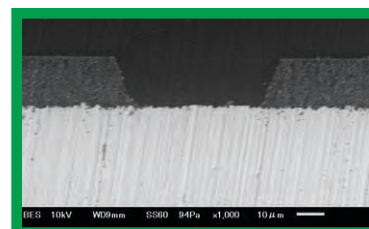
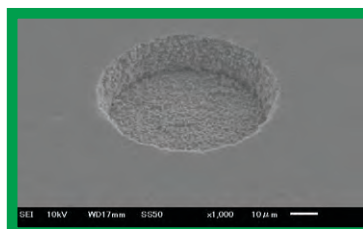
- ✔ Excellent HAST Performance
- ✔ Crack Resistance
- ✔ Excellent Resolution



Bending Test With 500 mg, Copper Foil, PSR-800 AUS SR1 and AUS SR3

PSR-800 AUS SR3

- ✔ For Ultra Thin/Coreless Applications
- ✔ High Tg / Low CTE
- ✔ Excellent CTE



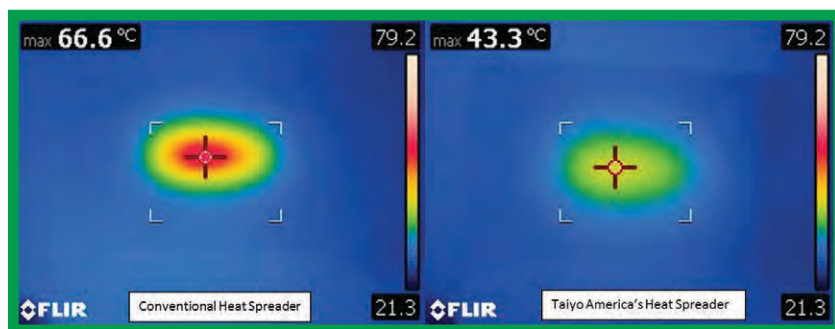
PSR-800 AUS SR3 80µm Opening and Cross Section

THERMO COOL

BY TAIYO

THERMO COOL 10.2W

- ✔ Single-Component, Thermally Cured
- ✔ Excellent Thermal Conductivity - 10 W/mK
- ✔ Low Outgassing
- ✔ Halogen-free
- ✔ Silicone-free
- ✔ Epoxy Based



Conventional Heat Spreader

Taiyo America's Heat Spreader

Wet Chemistry Pretreatment and Solder Mask Stripper

Taiyo Inkjet Solder Mask Pretreatment

IJSR-NFPT

- ✔ Pre-treatment for Inkjet Solder Mask Application
- ✔ Provides Excellent Resolution / Prevents Bleeding
- ✔ Non-foaming in Spray System
- ✔ Low Odor



Solder Mask Stripper from RBP

MAGNASTRIP 610 (MS610)

- ✔ Compatible with Taiyo Products (PSR-4000, IJSR-4000 and Legend Inks)
- ✔ Will Not Attack Buttercoat
- ✔ Strips Quickly and Efficiently



CONTACT

Ventec Europe

Unit 1 Trojan Business Centre
Tachbrook Park Estate
Leamington-Spa, CV34 6RH,
United Kingdom

T: +44 1926-889822

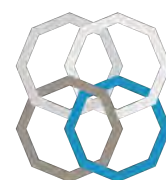
Email: taiyo@ventec-europe.com

Ventec Central Europe GmbH

Morschheimerstrasse 15
67292 Kirchheimbolanden
Germany

T: +49(0)6352 75326-0

Email: taiyo@ventec-europe.com



Distributed by:
ventec
INTERNATIONAL GROUP