

TAIYO AMERICA, INC.  
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CERTIFICATE OF CONFORMANCE


This is to certify that the following product has been inspected prior to sale and shipment, and complies with Taiyo America's manufacturing specifications for this product.

PSR-4000 CC100SGHF Lot # 9081227 Mfg. Date: 8-12-19  
Warranty Ends: 2-12-20

| <u>PROPERTY</u>                    | <u>TEST METHOD</u>  | <u>MANUFACTURING SPECIFICATION</u>   | <u>RESULT</u>  |
|------------------------------------|---|--|--|
| <b>VISCOSITY</b>                   | Toki Sangyo RE100U Viscometer<br>5 rpms @ 25°C  | Before mixing: 350 - 450 ps<br>After mixing: 130 - 170 ps  | 353 ps<br>156 ps   |
| <b>THIXOTROPIC INDEX</b>           | Toki Sangyo RE100U Viscometer<br>Viscosity ratio: 5 rpm / 50 rpm  | Before mixing: 1.40 - 1.80<br>After mixing: 1.20 - 1.60  | 1.75<br>1.39   |
| <b>FINENESS OF GRIND</b>           | TAI-0-0002  | 17.5 microns maximum   | 5 microns  |
| <b>VISUAL EXAMINATION</b>          | Microscopic examination:<br>1. 1-mil drawdown of wet film<br>2. Wet film drawdown on grind gauge  | No bubbles, pits, voids, particles, color differences.<br>No bubbles, pits, voids, particles, color differences. | Passed <input checked="" type="checkbox"/><br>Passed <input checked="" type="checkbox"/> |
| <b>SCREENABILITY</b>               | Visual inspection of screen printed panel   | No surface defects, such as bubbles, pinholes, etc.  | Passed <input checked="" type="checkbox"/>   |
| <b>TACK-DRY</b>                    | Hot air convection oven<br>80°C / 30 minutes  | Tack-free to the touch   | Passed <input checked="" type="checkbox"/>   |
| <b>IMAGING</b>                     | ORC HMW 680GW - 7 kW<br>300 mJ / cm <sup>2</sup><br>Horizontal Developer - 1% Na <sub>2</sub> CO <sub>3</sub><br>30°C (86°F) / 60 secs., 28 psi | Report Only<br>(clear on copper)   | 10   |
| <b>RESISTANCE TO SOLDERING (*)</b> | 260°C (500°F) / 30 sec x 1 cycle<br>Rosin-based flux  | No discoloration, peeling, or blistering   | Passed <input checked="" type="checkbox"/>   |
| <b>PENCIL HARDNESS (*)</b>         | TAI-0-0020  | 6H or greater  | 7H   |
| <b>ADHESION (*)</b>                | TAI-0-0021  | 100/100 on copper  | Passed <input checked="" type="checkbox"/>   |

(\*) - Final cure for these tests was 60 minutes @ 150°C (302°F) in a convection oven

Verified By:

 P.C. SUPERVISOR 8/16/19  
Name, Title, Date