

CERTIFICATE OF ANALYSIS and CONFORMANCE

This product meets all the requirements of IPC-SM-840E Classes H and T and Bellcore (Telecordia) GR-78-CORE and is UL recognized 94V-0 (File #E166421, UL Name: PSR-4000DE).

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>SPECIFICATION</u>	<u>RESULT</u>
VISCOSITY	Toki Sangyo RE100U Viscometer 5 rpms @ 25°C	After mixing: 220 - 270 ps	236 ps
THIXOTROPIC INDEX	Toki Sangyo RE100U Viscometer Viscosity ratio: 5 rpm / 50 rpm	After mixing: Report Only	1.4
FINENESS OF GRIND	TAI-0-0002	5 microns maximum	5 microns
VISUAL EXAMINATION	Microscopic examination: 1. 1-mil drawdown of wet film 2. Wet film drawdown on grind gauge	No bubbles, pits, voids, particles, color differences. No bubbles, pits, voids, particles, color differences.	Passed ☒ Passed ☒
SCREENABILITY	Visual inspection of screen printed panel	No surface defects, such as bubbles, pinholes, etc.	Passed ☒
TACK-DRY	Hot air convection oven 80°C / 30 minutes	Tack-free to the touch	Passed ☒
IMAGING	ORC HMW 680GW - 7 kW 500 mJ / cm ² (Under Artwork) Horizontal Developer - 1% Na ₂ CO ₃ 30°C (86°F) / 60 secs., 28 psi	Stouffer 21 step: 10 - 14 (clear on copper)	13
RESISTANCE TO SOLDERING (*)	260°C (500°F) / 30 sec x 1 cycle Rosin-based flux	No discoloration, peeling, or blistering	Passed ☒
SOLVENT RESISTANCE (*)	Immersion in PM Acetate 20°C / 20 mins.	No swelling, softening, or blistering	Passed ☒
PENCIL HARDNESS (*)	TAI-0-0020	6H or greater	9H
ADHESION (*)	TAI-0-0021	100/100 on copper	Passed ☒

Star O.C. SUPERVISOR 12/20/19
Name, Title, Date