



Ormet Circuits, Inc.

Ormet 2600 Conductive Paste

Product Description

Ormet™ 2600 is a screen applicable, electrically conductive paste. The material is solderable and can be applied to many inorganic and organic substrates including paper. Initially, the product has a long record of being used to modify signal circuits on printed wiring boards. Most recently, it has been used in the manufacture of RFID antennas while attaching its the silicon die.

Product Benefits

- ❖ Cost effective jumper wire replacement
- ❖ Appropriate for silicon die attach to paper for electrical and signal connection
- ❖ Auto screen print capability provides reliable and stable material outcomes
- ❖ Suitable for in line or batch processing
- ❖ Excellent electrical properties
- ❖ Optimized ink characteristics through industry standard equipment
- ❖ Aesthetically appealing
- ❖ Designed for multiple high thermal cycling after cure.

Environmental Test Conditions

- A. Humidity (+ 40°C, 95% RH, 10 days) [MIL std. 202E, method 103, cond. A)
- B. Solder Float: 550 F, 10 seconds, X5
- C. Thermal cycling (- 50°C ↔ + 125°C, 1000 cycles)
- D. Cross section of mechanical Integrity: PASS
- E. Dielectric Isolation: 100v bias for 24 hours: PASS
10v bias for 1000 hours: PASS

Paste Composition Properties	
Viscosity (cp)	200,000
Specific gravity (g/cc)	4.9
Storage and Shelf Life	
Storage Temperature	Shelf Life
-10°C	12 months
Containers should be sealed tightly and stored in a clean, stable environment at <10°C. Some settling of solids may occur and materials should be gently mixed prior to use.	
Pot life >24 cumulative hours	
Physical Properties - Typical	
Sheet Resistance	15mΩ/sq
Reactive Temperature	190°C-215°C
Thermal conductivity	16 (W/m*°K)
Plating compatibility	Electroless or electrolytic
Solderability	Exceeds IPC-TM-650-2.4.12 and meets IPC-TM-650-2.4.36
Screen Life	4 hours
Pot Life (open)	6 hours
Adhesion to FR4 Laminate pull strength	>100kg/cm2
Re-melt of metal network formed during processing	>300°C
TCE (ppm)	22

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