

Lord Adhesives Metech 3504 Palladium Silver Conductor Composition

Category : Polymer , Adhesive

Material Notes:

Designed for use in the manufacture of hybrid circuitry, resistor networks, potentiometers as well as general purpose microcircuitry. It employs a conventional glass bonding mechanism, has wide processing parameters and is optimized for use with high speed printing equipment. Fired conductor exhibits high initial and aged adhesion values and readily accepts tin lead and tin lead silver solders. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Metech-3504-Palladium-Silver-Conductor-Composition.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------|--------------------|----------|
| Viscosity | 200000 - 260000 cP | 200000 - 260000 cP | |
| Thickness | 12.0 microns | 0.472 mil | Fired |

| Electrical Properties | Metric | English | Comments |
|--------------------------------|-----------|-----------|----------|
| Surface Resistivity per Square | 0.025 ohm | 0.025 ohm | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--|-------------------------------------|----------|
| Shelf Life | 12.0 Month @Temperature 25.0 Â°C | 12.0 Month @Temperature 77.0 Â°F | |

| Descriptive Properties | Value | Comments |
|----------------------------------|-------|--|
| Adhesion | 4-5 | lbs; aged (100 hrs. at 150Â°C) |
| | 5-6 | lbs; initial |
| Coverage (cmÂ²/gm) | 70-75 | Calculated from 50 micron wet film |
| Line Resolution (microns) | 150 | |
| Silver to Palladium Ratio | 3:1 | |
| Solder Leach Resistance (cycles) | 5 | Number of 5-second cycles required to leach 50% of a 10 mil wide conductive line using 62Sn/36Pb/2Ag at 230Â°C |
| Solder Wetting (seconds) | < 3 | Time required to 100% solder wet 0.08" x 0.08" pad size using 62Sn/36Pb/2Ag at 230Â°C |

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