

Technical Data Sheet

Conductive Hybrid Paste Ink TEC-PA-070 For Screen Printing Process

Product Description

TEC-PA-070 is a hybrid paste ink which is specially designed by InkTec's outstanding technology and research solution for the purpose of firing in low temperature. It is hybrid paste ink and has strong adhesion even on ITO coated substrates. It enables you to apply various fields in the electronic industry.

Product Features

- Simple process

Printing method can reduce the manufacturing processes with only printing and sintering compare with etching process. Simple process will make it possible for you to retrench cost of processes.

- Short time for sintering

It takes a short period of time around 20 min/130°C for sintering, so it can improve your productivity.

Storage

- Stored at refrigeration(0°C~ 5°C)

Performance Specification Data

- Ink Properties

| Items | Representative Values | Remarks |
|----------------------|------------------------------|--|
| Ink Type | Paste | - |
| Appearance | Gray | Visual |
| Viscosity | 20 rpm : 150,000 | BROOKFIELD, DV-II +PRO (Spindle : 15, at 25°C) |
| Printing Method | Flat or Rotary Screen | -- |
| Density | 3.17 ± 0.2 g/cm ³ | at 25°C |
| Total Solid Contents | 83wt% | TGA |

- Performance Data

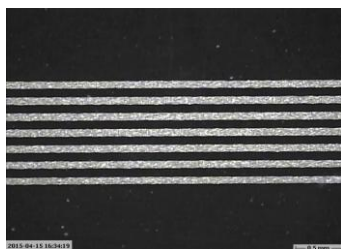
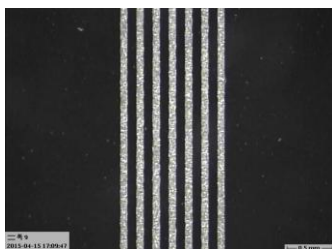
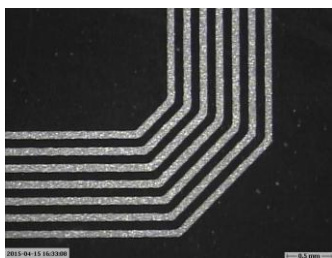
| Items | Representative Values | Remarks |
|---------------------|-----------------------------|-------------------|
| Curing Temperature | 130°C (20min) | in air |
| Sheet Resistivity | 120 mΩ/sq. | @25μm |
| Volume Resistivity | 3.0 X 10 ⁻⁴ Ω.cm | - |
| Adhesion (ITO Film) | Min. 4B | ASTM D3359 rating |
| Substrates | ITO Film | - |

Usage & Notes for handling

- Use of original paste is recommended. If dilution is needed, please use exclusive solvent, DA-030 or 2-(2-Ethoxyethoxy)ethyl acetate (CAS NO 112-15-2)
- If the paste was stored for a long time, conductive metal power may precipitate. Full stirring based on our guidance should be done before use

Applications

InkTec hybrid paste ink for ITO coated substrates is applicable to wire or electrode materials in the display (OLED, LCD, PDP) & solar cell fields using screen printing.



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