Product Sheet

Celanese

Micromax™ 5881: Next Generation Ag/AgCl Conductive Ink for Healthcare Applications

Introducing Micromax™ 5881, a new conductive ink/paste

As the need for remote patient monitoring grows so does the need for patient monitoring that is discrete, reliable, and accurate in long-term monitoring devices. Micromax™ 5881 provides healthcare manufacturers a high conductivity, solvent-based silver/silver chloride ink. Designed for screen printing on polyester film, Micromax™ 5881 is suitable for use as an electrode or a reference counter electrode for electrochemical sensors.

Product Benefits

- Low electrode polarization
- High conductivity
- High coverage
- Excellent stability in contact with high salt gels
- Excellent long-term printability
- Excellent manufacturing repeatability

Applications for Micromax™ 5881

- Blood glucose monitoring
- Biopotential electrode sensors, including:
  - ECG/EKG
  - EMG
  - EEG
- Electrical stimulation (TENS and EMS)

Typical Physical Properties

Test	Properties
Density (g/cc)	2.96
Cross Hatch Adhesion (B) [ASTM Norm D3359078]	5
Coverage (cm^2/g @ 1 mil) [Printed with 325 stainless steel mesh]	Approx. 100
Resistivity (mΩ/sq/mil)	30-40
Dried print thickness (280 mesh screen, µm)	18-20
Viscosity (Pa, S) [Brookfield 0.5 RVT, Utility cup & spindle SC4- 14/6R, 10 rpm, 25°C]	30-50
Solids (150°C) [%]	78.0 – 81.0
Thinner	Micromax™ 8210
Ag:AgCl ratio	75/25

Micromax™ is a leading brand of printable, stretchable, and moldable functional thick film inks, pastes and ceramic tapes. Micromax™ brand products are utilized for circuitry, interconnection and packaging of electronic devices in automotive, passive components, telecom, consumer electronics, healthcare and military applications featuring properties such as enhanced circuit density, improved thermal management, higher reliability and other critical functionality. Micromax™ represents over 60 years of experience in the development, manufacture and sale of specialized electronic materials, and offers leading global customer support and product quality and consistency.

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