TERAOMIC

Technical Data Sheet

TERAOMIC-0102R

Electrically Conductive Paste

05. 04. 2023

- TERAOMIC-0102R is a paste that has energy efficient and stability at high temperatures of 250℃ or higher.
- TERAOMIC-0102R is a form of ink mixed with two or more thermosetting resins, CNTs and Graphene flakes. Also it features excellent heat uniformity and flexibility.
- It is printed on various substrates such as PI, PET, Fiber, Ceramic and Metal through screen printing or gravure printing, It also possesses high-temperature resistance of 250℃ or higher and excellent flexibility
- It can be applied to various fields, such as jacket heaters, radiant panels for buildings, and heating components for various equipment.

Product Properties

Physical Properties	TRAOMIC-0102R
Chemical Type	Thermoset
Fillers	CNT, Graphene flakes
Color	True Black
Material Properties	**Spec**
Process Temperature (℃)	150℃ ~ 300℃
Drying Condition	0.5~1.0hr
Viscosity(cps)*	25,000~35,000
Thixotropic Index (5rpm/50rpm)	3.0~4.0
Volume Resistivity (Ω*cm) **	< 5.0×10^{-2}
Adhesion (PI Film)	< 5B @ Cross cut test
Bending TEST (10R,50000 pass)	Less than 10% (Sheet resistance)

Application Process	
Screen Printing	Yes
Material Properties	
Pot Life (at 25℃)	> 24 hours
Shelf Life	6 Months
Storage Condition	Below 10℃

***Brook Field HB DV II #14 at 25℃**
****60min @ 250℃**

Characteristics

- After drying, Good flexible performance
- Low resistance system
- Good Screen printing performance
- High adhesive strength (< 5B, Cross cut TEST **150~300℃**)
- Good preservation safety

Applications

- Heating system for vehicle
- Low resistance for screen printing process
- Good adhesion for PI, PCT Film
- Good flexible electrode for 3D forming
- Uniform Heating Distribution
- Reduced Heating Power Consumption
- High-Temperature Stability

Note

- Do not open the pot before reaches room temperature to prevent the moisture condensation
- Do not return the used product to the container. We cannot guarantee product property.
- This Paste are package in pot per customer specification.
- Clean up : Ag paste may be cleaned from surfaces with ETOH, acetone, MEK. Etc.
  : Always wash and dry thoroughly prior to re-use of the PI ,PCT, PET Film