

TERAOMIC-0110R

Electrically Conductive Paste

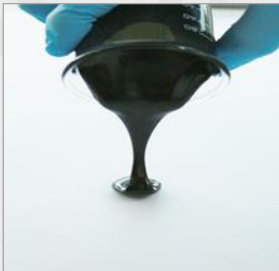
05. 04. 2023

- TERAOMIC-0102R is a paste that has energy efficient and stability at high temperatures of 250°C 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°C 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-0110R
Chemical Type	Thermoset
Fillers	CNT, Graphene flakes
Color	True Black
Material Properties	Spec
Process Temperature (°C)	150°C ~ 300°C
Drying Condition	0.5~1.0hr
Viscosity(cps)*	30,000~40,000
Thixotropic Index (5rpm/50rpm)	3.0~4.0
Volume Resistivity (Ω*cm) **	< 9.0 x 10 <sup>-3</sup>
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°C)	> 24 hours
Shelf Life	6 Months
Storage Condition	Below 10°C



Characteristics

\*Brook Field HB DV II #14 at 25°C  
\*\*60min @ 250°C

- After drying, Good flexible performance
- 20~30% lower resistance than 0102R
- Good Screen printing performance
- High adhesive strength (< 5B, Cross cut TEST **150~300°C**)
- Good preservation safety

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

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