



Noelle Industries, Inc.
Adhesives • Coatings • Conductives • Encapsulants

NOELLE E903-25-2

A One Component Electrically Conductive Ink

Description:

Noelle 903-25-2 is a carbon filled, electrically conductive, one component high performance screen printable ink.

Advantages and Applications:

Noelle 903-25-2 features electrical conductivity and has a desirable viscosity for screen-printing or dot dispensing. Noelle 903-25-2 is designed to be used when superior electrical resistance is not required. Noelle 903-25-2 features excellent screen printability and good adhesion to a variety of substrates such as most metal, including **Nickel**-plated surfaces, polyester film, phenolic, and ceramic. Noelle 903-25-2 has been modified to improve shock resistance during Thermal Shock Testing. Applications include membrane switches, flexible circuits and RFI shielding.

Physical Properties:

Color: Black
Specific Gravity: 1.05
Pounds per Gallon: 8.70
Viscosity @ 25°C: 120,000 cP ± 20,000 cP

Shelf Life: (Sealed container)

Three Months @ 25°C
Six Months @ 0°C
One Year @ -40°C

Viscosity Adjustment:

Solvent used is Butyl Cellosolve Acetate

Cure Schedules:

(Longer times or higher temperatures will further enhance end properties.)

Cure Temp: 120°C	150°C	160°C
Cure Time: 60 min	30 min.	10 min.

Instructions for use

If thickening occurs by solvent loss or if a lower viscosity is desired for spray or other applications, thin with Butyl Cellosolve Acetate. The solvent thinned compound will result in a cured film with a higher sheet resistivity and should be used promptly or periodically agitated to avoid filler settling,

Cured Properties:

Glass Transition Temperature (t _g):	115°C
Sheet Resistivity, Ohm / Sq / Mil @ 25°C:	<10
After 15 min @ 175°C	<5
Lap Shear, Tensile Strength AI/AI ASTM D-1002:	>1000 psi

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.

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