



# TECHNICAL DATA SHEET

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

## NOELLE 902-09

### A One Component, B Stageable Epoxy Compound

#### Description:

Noelle 902-09 is a one component high performance electronic screen printable Epoxy Compound. Noelle 902-09 can also be used as a structural adhesive for bonding dissimilar substrates.

#### Advantages:

Noelle 902-09 will cure at temperatures as low as 120°C. It features excellent chemical, heat and moisture resistance, and also exhibits class F (155°C) continuous operating service.

Noelle 902-09 can be supplied in various colors.

#### Physical Properties:

Color: Ivory  
Pounds per Gallon: 10.50  
Specific Gravity: 1.26  
Viscosity: Paste

#### Shelf Life: (Sealed container)

Three Months @ 25°C  
Six Months @ -10°C  
One Year @ -40°C

#### Cure Schedules:

Longer times or higher temperatures will further enhance end properties.

Cure Temp:	120°C	150°C	160°C
Cure Time (Minutes)	60	30	5

#### Cured Properties:

Shore Hardness, measured @ 25°C: 85D  
Volume Resistivity, @ 25°C (Ohm/cm):  $1.0 \times 10^{13}$   
@ 130°C (Ohm/cm):  $4.0 \times 10^{11}$   
Lap Shear, Tensile Strength  
Al/Al ASTM D-1002 (psi): >2500  
Coefficient of Linear Thermal Expansion  
(inch/inch°C):  $70 \times 10^{-6}$   
Dielectric Strength, @ 25°C (VPM): 470  
Dissipation Factor, @ 25°C (100 Hertz): 0.079  
Glass Transition Temperature ( $t_g$ ): >140°C  
Modulus @ 25°C (Pa):  $2.2 \times 10^9$   
@ 180°C (Pa):  $2.5 \times 10^7$   
Water Absorption: 1.2 %

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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