



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

NOELLE E903-12

A One Component Electrically Conductive Liquid Adhesive

Description:

Noelle E903-12 is a electrically conductive, one component high performance liquid adhesive for lid sealing and die bonding. Noelle E903-12 can also be used as a structural adhesive for bonding dissimilar substrates.

Advantages:

Noelle E903-12 will cure at temperatures above 120°C. Noelle E903-12 features excellent chemical, heat and moisture resistance. It also exhibits class F (155°C) continuous operating service.

Shelf Life: (Sealed container)

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

Physical Properties:

Color:	Silver
Pounds per Gallon	33.73
Specific Gravity	4.05
Viscosity	Paste

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.
---------	---------	---------

Cured Properties:

Shore Hardness, measured @ 25°C:	86D
Volume Resistivity, Ohm-cm @ 25°C:	1 x 10 ⁻⁴ *
* (After cure @ 160°C)	

Lap Shear, Tensile Strength

Al/Al	ASTM D-1002:	>2800 psi.
304SS/304SS	ASTM D-1002:	>2900 psi
Coefficient of Linear Thermal Expansion (in/in°C): 45 x 10 ⁻⁶		
Glass Transition Temperature (t _g): >140°C		
Modulus @ 25°C		2.18 x 10 ⁹ Pa
@ 180°C		2.52 x 10 ⁷ Pa
Water Absorption (Maximum)		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.

• 76 Treble Cove Road, Building # 3, Unit C, North Billerica, MA 01862

• Phone: (978) 439-9841 • Fax: (978) 439-9842 • Website: www.noelleindustries.com • email: info@noelleindustries.com