



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

NOELLE I805-98

A One Component Encapsulant and Insulating Compound

Description:

Noelle I805-98 is a one component high performance liquid adhesive for lid sealing and die bonding. Noelle I805-98 can also be used as a B stage structural adhesive for bonding dissimilar substrates.

Advantages:

Noelle I805-98 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.

B Stage:

Apply adhesive to substrates to be bonded and Gel adhesive @ 105°C for ten minutes or until adhesive is dry and tack free to the touch. These parts or assemblies may be stored in a sealed environment until full cure or final assembly is required. Then followed recommended cure schedule listed on this technical bulletin

Physical Properties:

Color:	Ivory
Pounds per Gallon	10.50
Specific Gravity	1.26

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
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Cure Time:

60 min.	30 min.	10 min.
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Cured Properties:

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

• 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