



TECHNICAL DATA SHEET

Noelle Industries, Inc.

Adhesives • Coatings • Conductives • Encapsulants

NOELLE 805-53

A One Component Encapsulant and Insulating Compound

Description:

Noelle 805-53 is a one component heat cured, slightly thixotropic, 100% solids, liquid encapsulant and insulating compound. Noelle 805-53 can also be used as a structural adhesive for bonding dissimilar substrates.

Advantages:

Noelle 805-53 will cure at temperatures as low as 100°C. It features excellent chemical, heat and moisture resistance, and also exhibits class B (130°C) continuous operating service.

Physical Properties:

Color: Black
Pounds per Gallon 10.10
Specific Gravity 1.21

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 Temperature:	100°C	120°C	160°C
Cure Time (minutes):	30	15	3

Cured Properties:

Shore Hardness, measured @ 25°C: 86D
Volume Resistivity @ 25°C (Ohm/cm): 1.0×10^{14}
@ 130°C (Ohm/cm): 4.0×10^{10}
Lap Shear, Tensile Strength
Al/Al ASTM D-1002 (psi): >2736
Coefficient of Linear Thermal Expansion
(in/in°C): 60×10^{-6}
Dielectric Strength @ 25°C (VPM): 425
Dissipation Factor @ 25°C (100 Hertz): 0.091
Glass Transition Temperature (t_g): >120°C
Modulus @ 25°C 4.9×10^9 Pa
@ 180°C 8.9×10^7 Pa
Water Absorption 1.7 %

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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