

PRODUCT DESCRIPTION:

AA-BOND 2101 is a clear medium viscosity epoxy formulation recommended for laminating, bonding, repair and other adhesive applications where the combination of superior structural, mechanical and electrical performance properties are required.

AA-BOND 2101 easily mixes and cures at room temperature, and develops strong, durable, tough bonds to most clean, dry material surfaces.

The fully cured AA-BOND 2101 bonds are great electrical insulators which also provide excellent resistance to weather, galvanic action, many mild acids and alkalis, salt solution, petroleum solvents, lubricating oil, gasoline, jet fuels, alcohol, and many other organic and inorganic materials.

GENERAL PROPERTIES:

Appearance	Slight haze/Clear
Cure Type	Room temperature or Heat cure
Benefits	<ul style="list-style-type: none"> Resistant to many organic/inorganics Strong bond strength Durable
Mix Ratio by weight	100:25 / Resin : Hardener
Substrates	Metals, ceramics, glass, glass fabrics, wood leather and rigid plastics
Typical Applications	Laminating, bonding, repair and other adhesive applications where the combination of superior structural, mechanical and electrical performance properties are required.

UNCURED PROPERTIES:

Viscosity @ 25 °C	18500 cPs ±1000
Solids Content	100%
Specific Gravity, mixed	1.19 g/cc
Pot Life	30 minutes
Shelf life	1 Year

CURE SCHEDULE:

4 hours	@ 65°C
24 hours	@ 25°C

AVAILABILITY:

This epoxy can be supplied in many different packages

MISC PROPERTIES:

Glass Transition Temp, Tg	62°C, 144 °F
Hardness, Shore D	84
Adhesive Bond Strength	3300 psi (Alum to Alum)
Izod Impact, Notched	0.800 ft-lb/in

ELECTRICAL PROPERTIES:

Volume Resistivity	6.00e+15 ohm-cm 5.00e+9 ohm-cm @Temperature 212 °F, 100 °
Dielectric Constant	4.3 @Frequency 1000 Hz
Dielectric Strength	370 kV/in
Dissipation Factor	0.020 @Frequency 1000 H

GENERAL INFORMATION:

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

HOW TO USE:

- Carefully clean and dry all surfaces to be bonded.
- Apply AA-BOND 2101 mixed adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured.
- Some separation of components is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.
- Some ingredients in this formulation provided may crystallize when subjected to low temperature storage. A gentle warming cycle of 52°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be re-dissolved prior to use for best results.

ELECTRICAL PROPERTIES:

CTE, linear	30.6 µin/in-°F @Temperature 68.0 °F
Glass Transition Temp, Tg	62.0 °C, 144 °F
Operating Temperature	-60 to 135 °C

Atom Adhesives

Email: info@atomadhesives.com

200 Allens Ave, Providence, RI 02903

Phone: (888) 522-6742 - Fax: (877) 522-6742