

PRODUCT DESCRIPTION:

AA-BOND 2110 is a thixotropic epoxy resin and hardener formulation developed for industrial adhesive, staking, laminating, repair and manufacturing applications where long pot-life, good wetting, non-sag, non-drip and improved impact strength properties are required. AA-BOND 2110 is easy-to-use two parts adhesive system contains no volatile solvents, readily cures at room temperature, and bonds to most materials including glass and glass fabrics, ceramics, wood, leather, most metals, and many plastics.

AA-BOND 2110 is strong, tough, resilient, has superior mechanical impact and thermal shock resistance characteristics, and is also highly resistant to weather, water, gases and vapors, most petroleum products and fuels, salts, mild acids and alkalis, and many other organic and inorganic compounds.

PRODUCT PROPERTIES:

Appearance	Hazy off white
Cure Type	Room temperature or Heat cure
Benefits	High impact strength Good wetting Long pot life
Mix Ratio by weight	100:30 / Resin:Hardener
Substrates	metals, glass, ceramics, wood and many plastics
Typical Application	Staking components, bonding, laminating, repair applications, PCB components, aerospace, anything where superior properties are required
Thixotropic Index	6.6

UNCURED PROPERTIES:

Specific Gravity, mixed	1.25 g/cc
Viscosity @25 °C, cps	60,000 cP
Pot Life	1 Hour (100 grams)
Shelf life	1 Year

CURE SCHEDULE:

8 hours	4 hrs @ 25°C + 4 hrs @ 65°C
24 hours	@ 25°C
72 hours	@ 25°C

AVAILABILITY:

This epoxy can be supplied in many different packages.

THERMAL PROPERTIES:

CTE, linear	30.5 $\mu\text{in/in-}^\circ\text{F}$ @RT
Operating Temperature	-70 to 100 °C

MECHANICAL PROPERTIES:

Hardness, Shore D	80
Adhesive Bond Strength	3100 psi
Izod Impact, Notched	2.00 ft-lb/in

ELECTRICAL PROPERTIES:

Volume Resistivity	9.50e+8 ohm-cm 280 ohm-cm @Temperature 176 °F
Dielectric Constant	4.7 @Frequency 1000 Hz
Dielectric Strength	430 kV/in
Dissipation Factor	0.010 @Frequency 1000 Hz 0.31 @Frequency 1000 Hz

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 2110 completely 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

Atom Adhesives

Email: info@atomadhesives.com

200 Allens Ave, Providence, RI 02903

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