

PRODUCT DESCRIPTION:

AA-BOND F110 is a rigid, optically clear adhesive with a very low viscosity.

AA-BOND F110 is room temperature system an excellent choice for thin bond-line assembly and repair applications of prisms, lenses and other optic components. And its high strength makes this epoxy ideal for structural applications.

AA-BOND F110 exhibits excellent wetting and wicking capabilities which allows it to adhere strongly to glass, ceramics, metals and most rigid plastics.

GENERAL PROPERTIES:

Appearance	Transparent, Clear
Cure Type	Heat cure or Room Temperature
Benefits	<ul style="list-style-type: none"> • High strength • Perfect insulative properties • Good resistance to salt solutions, mild acids and Alkalis and many other chemicals
Mix Ratio by weight	100:11 / Resin: Hardener
Substrates	Excellent choice for thin bond-line assembly and repair applications of prisms, lenses and other optic components.
Typical Applications	Exhibits excellent wetting and wicking capabilities which allows it to adhere strongly to glass, ceramics, metals and most rigid plastics.

UNCURED PROPERTIES:

Viscosity @ 25 °C cps	310 @Temperature 77 °F, 25 °C
Thixotropic Index	1.0
Specific Gravity, mixed	1.16
Reactive solids contents, %	100
Pot Life	30 minutes
Volatile Organic Compounds (VOC) Content	39.1 g/l
Shelf Life	1 year

OPTICAL PROPERTIES:

Refractive Index	1.54
Transmission, Visible	97%

CURE SCHEDULE:

1 – 2 Hours	@ 65°C
24 Hours	@ 25°C

CURED PROPERTIES:

Hardness, Shore D	83
Refractive Index	1.54
Lap shear strength, (alum to alum) psi	2150 (,24 hrs @ 25°C) 2600 (1 hr @ 65°C) 3000(4 hrs @ 65°C)

ELECTRICAL PROPERTIES:

Volume Resistivity	6.00e+13 ohm-cm
Dielectric Constant	4.3 @Frequency 1000 Hz
Dielectric Strength	410 kV/in

THERMAL PROPERTIES:

Operating Temperature	-60 to 130 °C
Glass transition temperature (Tg), °C	90.0 °C 194 °F
CTE, linear	33.3 µin/in-°F @Temperature 68.0 °F

GENERAL INFORMATION:

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

HOW TO USE:

1. Carefully clean and dry all surfaces to be bonded
2. Apply AA-BOND F110 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.
3. 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.
4. 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 and recommendations on specifications for this product.

AVAILABILITY

This epoxy can be supplied in many different packages.

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