

PRODUCT DESCRIPTION:

AA-BOND FDA16 is a medium viscosity epoxy resin system specifically developed for medical device applications.

AA-BOND FDA16 has been tested in accordance with USP biological reactivity tests, in vivo and received Class VI approval.

PRODUCT PROPERTIES:

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| Appearance | Amber |
| Mix Ratio, by weight | 100:33 / Resin:Hardener |
| Benefits | <ul style="list-style-type: none"> • Medium viscosity • low permeability • Good resistance • Class VI approved |
| Cure Type | Heat cure or Room temperature |
| Typical Applications | Bonding, laminating and repair applications by manufacturers of food preparation, processing and packaging equipment, and by manufacturers of catheters, hearing aids, dental products and other biomedical instruments and devices. |

UNCURED PROPERTIES:

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|---|----------------------------------|
| Viscosity @ 25 °C cps | 4,700 @Temperature 77°F, 25°C |
| Specific Gravity, cured | 0.900 g/cc |
| Pot Life | 25 min |
| Solid Content | 100% |
| Volatile Organic Compounds (VOC) Content | 0.15 g/l |
| Water Absorption , after 24 HR saturation, % | 0.30 |

MECHANICAL PROPEERTIES:

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|--|-------------------|
| Lap Shear Strength alum to alum | 2100 24 HR @ 25°C |
| | 3300 4 HR @ 65°C |
| Hardness, Shore D | 86 4 hrs @ 65°C |
| | 75 24 hrs @ 25°C |

CURE SCHEDULE:

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|--------------------|--------|
| 1 – 4 hours | @ 65°C |
| 72 hours | @ 25°C |

ELECTRICAL PROPERTIES:

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| Volume Resistivity | 1.20e+14 ohm-cm |
|---------------------------|-----------------|

THERMAL PROPERTIES:

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|----------------------------------|--|
| CTE, linear | 29.4 µin/in-°F @Temperature 68.0 °F |
| Glass Transition Temp, Tg | 97.0 °C, 207 °F |
| Operating Temperature | -70 to 145 °C |

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 FDA16 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.

AVAILABILITY:

This epoxy can be supplied in many different packages.

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