



Manufacturer:
ÅngströmBond®

Product Name:
ÅngströmBond® AB9112 MIL-SPEC Fiber Optic Epoxy,
Room Temperature & Heat Cure (2.5g)

Manufacturer Part Number:
AB9112-2.5G



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ADVANCED POLYMERS for High Tech Applications

Adhesives

ÅNGSTRÖMBOND® 9112
MIL SPEC approved Fiber Optic Epoxy

Description:

ÅNGSTRÖMBOND® 9112 is a blue, room temperature curing, optical connector adhesive with a long working life. It has been tested and qualified to **MIL-A-24792A** for fiber optic terminations. This low viscosity epoxy is an excellent choice for potting and sealing applications where good impact, moisture and chemical resistance are desired.

ÅNGSTRÖMBOND® 9112 is designed to bond glass to metal, ceramic or plastic and will yield a very high Glass Transition temperature when heat cured thus minimizing pistoning during temperature cycling. This system produces very low stress making it an excellent choice for use in single and multimode connectors.

Typical Physical Properties:

Color Mixed:	Dark Blue
Specific Gravity, g/cc:	1.2
Mixed Viscosity	
@ 25°C, cps:	2000
after 40 min @ 25°C, cps:	< 3000
Service Temperature Range, °C	-60 to 130
Ultimate Glass Transition, °C:	93.5
Hardness, Shore D:	82
Linear shrinkage, % (room temp cure)	0.12-0.15
Mix Ratio by Weight,	
Resin to Hardener:	100/30
Lap Shear Strength, psi (Al/Al):	2810
Tensile Strength, psi	8500
Water absorption, % (24 hrs)	0.015
Impact, Izod, (ft lbs/inch of notch:)	0.8

Handling Characteristics:

Working Life:	40 Minutes
Minimum Cure Schedule, by DSC:	
@ 25°C	12-18 Hours
@ 65°C	30-60 Minutes
@ 90°C	15 Minutes
@ 100°C	5 Minutes

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Application Directions:

Bi-pack Packages: Safely remove the divider clip from the package. Knead the package (multiple passes over the edge of a table works well) until a uniform color is achieved and the material is thoroughly mixed. Ensure all material from the corners of the bi-pack are mixed in. 25 passes over the edge of a table are recommended. Cut open end of package to dispense.

De-airing:

De-airing of mixing epoxy should be done to remove any entrapped air. Vacuum de-airing should be Performed.

Handling:

To ensure better performance of the potted or encapsulated components, adequate cleaning of components should be performed to remove contamination such as dust, moisture, salt and oils that can cause poor adhesion.

Storage:

Two component epoxy resin systems should be stored between 65°F and 90°F. Refrigeration is not recommended. Most two-component epoxy resin systems are naturally susceptible to crystallization, especially when stored at temperatures below the recommended storage temperatures. Do not store epoxy materials near sources of heat. All materials should be kept in the original packaging to prevent foreign matter contamination and moisture entry.

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Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are
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