



Manufacturer:
ÅngströmBond

Product Name:
ÅngströmBond AB9310 High Temperature Heat Cure Epoxy (1 Oz)

Manufacturer Part Number:
AB9310-1OZ

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ADHESIVES

The only adhesive line developed exclusively for fiber optics

ÅNGSTRÖMBOND® 9310
High Temperature, Spectrally Transparent Epoxy

Description:

ÅNGSTRÖMBOND 9310 is an improved, low viscosity, clear epoxy designed for applications requiring continuous high temperature exposure. This two part system develops high strength bonds to metal, glass ceramic and most plastics. Fully cured material will produce a high glass transition temperature and offers high resistance to chemical and environmental environments.

Typical Physical Properties:

Appearance before cure	
Resin	Clear to Cloudy
Hardener	Clear
Color, cured	Clear
Hardness, Shore D:	87
Specific Gravity:	1.20
Viscosity, cps:	1,000
Operating Temp, °C	-60 to 265
Lap Shear Strength, (Al/Al):	2100 psi
Glass Transition, °C:	125
Solids, %	100
Refractive index, 589nm	1.548
% Transmission, 400 to 1500 nm	> 95%

Handling Characteristics:

Mix Ratio by weight,
Resin to Hardener: 100:85

Working time @ 25°C – 5 days

Cure Schedule:

30 minutes @ 135°C + 30 minutes @ 170°C

150°C for 30-60 minutes can be used for applications not requiring high temperatures.

For small applications of 2 drops or less, a cure of 120min.@125°C + 60min@140°C can be utilized

For casting applications over 5 grams use a step cure schedule of 2 hours at 65°C + 2 hrs.@125°C + 60 mins. @ 175°C.

NOTE: Hardener contains some solid constituents. Warming at 100°C to 150°C for several hours may be needed before using.

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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 subject to change without notice.