



Hybrid Plastics[®]

Superior Technology for Superior Products

POSS[®] Bond EP3120

EP3120 is a transparent, amber-looking epoxy product that has outstanding oxidation resistance to ozone, plasma, or atom oxygen environments. It is highly useful as protective coating, potting compound, and adhesive for medical and electronic tools. EP3120 also has excellent moisture and solvent resistance due to the presence of Nanostructured[®] POSS[®] molecules.

KEY PERFORMANCE

- Low viscosity, easy handling
- Transparent
- Resistant to oxidation and corrosion
- Resistant to solvent and moisture

PHYSICAL PROPERTIES

Composition:	POSS [®] epoxide Anhydride
Density (after cure):	1.1 g/mL
Pot life:	3 hours
Glass Transition:	80°C
Viscosity (after mixing):	<5 Poise
Young's Modulus:	3-3.5 Gpa
CTE:	<100 ppm/°C
Appearance after hardening:	Clear amber solid
Shelf life:	1 year at room temperature
Shore D hardness:	86

RECOMMENDED CURE PROCEDURE

- (1) Store resin/hardener at room temperature
- (2) Thoroughly mix Part A with Part B (1:1 by weight)
- (3) Thoroughly stir the mixture
- (4) commence molding or infusion
- (5) Cure at 70 °C for 120 minutes or at 100 °C for 15 minutes
- (6) Slowly cool the part down to room temperature

WARRANTY

The information contained herein is believed to be accurate and reliable. However, the user is responsible for determining the suitability and use of the final formulations/products. Hybrid Plastics warrants that its products will meet specifications, but not merchantability or fitness for use.