

# POSS<sup>®</sup> Resin EP3532

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**EP3532** is a POSS enhanced high-temperature epoxy adhesive. It offers long pot life at elevated temperatures, high glass transition temperature and good adhesion. The POSS<sup>®</sup> content in EP3532 also enhances other unique properties such as thermal stability, oxygen and chemical resistance. Major applications include composites, medical devices, and electronics.

## KEY PERFORMANCE

- *High glass transition temperature (135 °C)*
- *Good strength even after T<sub>g</sub>*
- *High degradation temperature (>325 °C)*
- *Very low outgassing and VOC*
- *Excellent adhesion to glass fiber and carbon fiber*

## PHYSICAL PROPERTIES

Composition:	POSS <sup>®</sup> epoxide TEPA
Density (after cure):	1.3 g/ml
Pot life:	>3 hours at 80°C
Viscosity (after mixing):	<500 Poise at room temperature; <5 poise at 80°C
Young's Modulus:	2.5-3.0 Gpa
Appearance before hardening:	Clear viscous liquid
Appearance after hardening:	Clear yellowish solid
Shore D Hardness:	88
Shelf life:	6 months at room temperature; 1 year if refrigerated.

## RECOMMENDED CURE PROCEDURE

- (1) Store resin/hardener at room temperature
- (2) Warm Part A (resin) up to 60-80°C for better handling
- (3) Thoroughly mix Part A with Part B (6:1, ratio in weight percentage)
- (4) Begin molding or infusion
- (5) Cure at 80°C for 1 hour
- (6) Cure at 120°C for 1 hour
- (7) Post-cure at 150°C for 1 hours.
- (8) 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.

**Hybrid Plastics<sup>™</sup>** Superior Technology for Superior Products  
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