



TECHNICAL INFORMATION

技 術 資 料

Tech. No. E-533/H-533

Fong Yong Chemical Co., Ltd.

E-533/ H-533

E-533/H-533 is a flame-retardant, moderate heat-curing epoxy resin. Specially designed for electronic and electrical products requiring UL94 flame retardancy and excellent electrical properties, used in large-volume potting applications. It features:

- 1、Excellent flame retardancy, UL94 V-0 certified (E120665).
- 2、Good electrical properties.
- 3、Long working time (pot life).
- 4、Low shrinkage with strong adhesion to most substrates.
- 5、Good thermal conductivity.
- 6、Good chemical and water resistance.

Properties:

	E-533	H-533
Appearance	White viscous liquid	Amber liquid
Viscosity (cps, 25°C)	500,000~1,500,000	10~100
Mix Ratio (by weight)	100 : 10	
Mixed Viscosity (@25°C, cps) / (@50°C, cps)	2,500 ~ 5,000 700 ~ 1,500	
Pot Life (25°C)	24 hours	
Full Cure Conditions*	80°C×2hrs+120°C×4hrs	
Hardness, Shore D	88	
Compressive Strength (psi)	21,230	
Flexural Strength (psi)	2,970	
Tensile Strength (psi)	3,760	
Thermal Conductivity (W/m·K)	1.5	

Dielectric Strength (KV/mm)	20
Volume Resistivity (Ω·cm)	6.7×10^{15}
Glass Transition Temperature Tg (°C)	127
UL Certification Rating	94 V-0

*Pot life and cure conditions vary depending on the quantity used and the thickness of the adhesive.

Instructions for Use:

- 1、Prepare clean containers and mixing tools.
- 2、Before use, stir Part A (E-533) thoroughly until homogeneous.
- 3、Accurately weigh E-533 (Part A) and H-533 (Hardener) according to the 100:10 mixing ratio by weight.
- 4、Mix thoroughly, ensuring that all material on the edges of the container is also incorporated.
- 5、Place the mixture in a vacuum chamber and degas to remove entrapped air bubbles.
- 6、Prepare and apply the mixture within the pot life.
- 7、Cure according to the specified cure schedule.

Precautions:

- 1、Do not cross-contaminate Part A (E-533) and Hardener (H-533) to prevent unwanted reaction during storage.
- 2、Store in a cool, dark, and dry location.
- 3、Ensure good ventilation at the workplace. Wear appropriate masks or respiratory protective equipment during use.
- 4、Avoid contact with eyes. If accidental eye contact occurs, immediately flush with large amounts of clean water for at least 15 minutes and seek medical attention.
- 5、If skin contact occurs, wipe off with a clean cloth or paper towel, then wash thoroughly



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with soap and water.

- 6、Do not swallow; do not allow contact with food.
- 7、Keep out of reach of children.

Storage:

- 1、Store below 25°C in a dry place.
- 2、Use as soon as possible after opening. If unable to use all at once, reseal tightly and store in a cool, dry place.
- 3、Avoid direct sunlight, high temperatures, and high humidity environments.

The data provided in this document are based on measurements conducted under controlled laboratory conditions at our company and are offered solely as a reference for customers. Customer processes — such as mixing ratios, mixing uniformity, cure conditions (e.g., environment, temperature, humidity, dimensions), and substrate preparation — may affect the actual results. We recommend evaluating the product in your specific application before full-scale use. Our company cannot guarantee the applicability of the data to individual customer applications. It is the user's responsibility to determine the suitability of the data and methods. For technical enquiries, please contact us. 20260323

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