



TECHNICAL INFORMATION

技術資料

Tech. No. E536/H536

FONG YONG CHEM. CO., LTD.

E536 / H536

E536/H536 is a flame resistant medium temperature curing epoxy resin. It is designed for massive pottings particularly for the requirements of UL94 fire resistance and good dielectric properties.

Features:

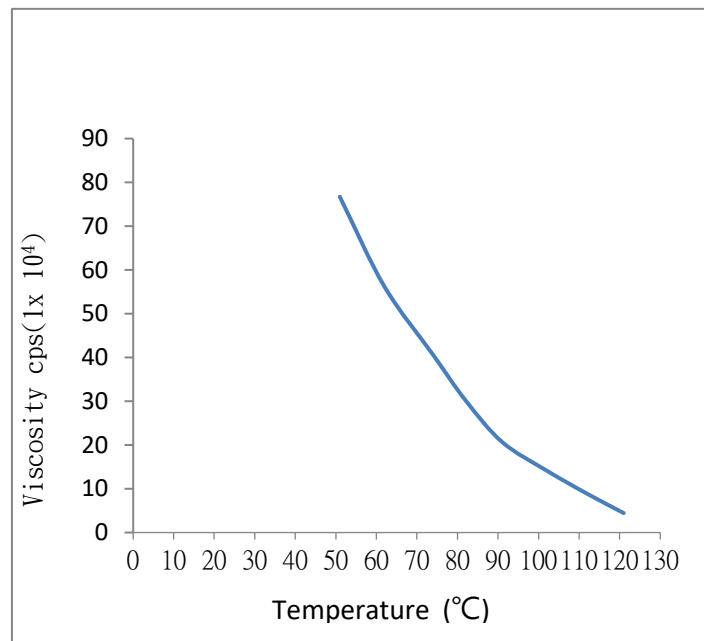
1. Excellent flame resistant, UL94V0 approval (E120665).
2. Excellent dielectric properties.
3. Long pot life.
4. Low shrinkage, excellent adhesion properties to most materials.
5. Good thermal conductivity.
6. Excellent chemical resistance and waterproof.
7. High HDT.

Typical Properties :

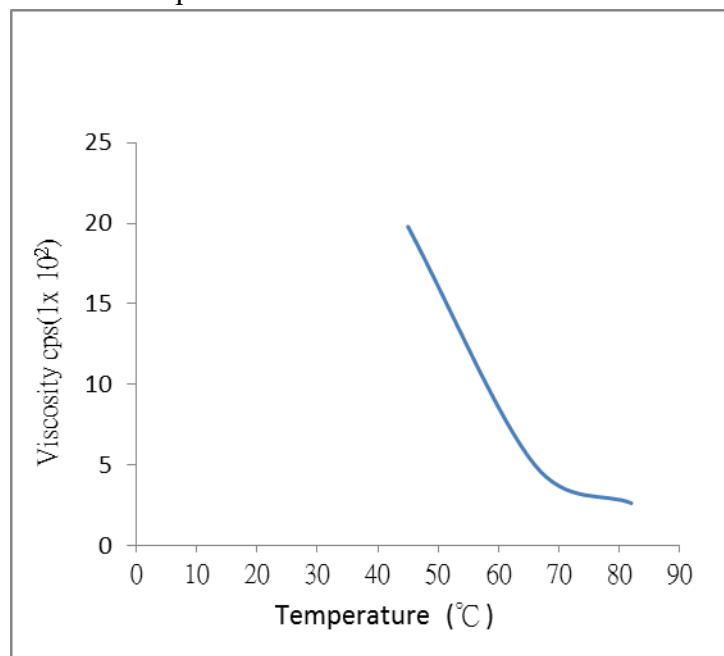
	E536	H536
Appearance	Black liquid	Amber liquid
Density (25°C)	1.76	1.20
Mix ratio (wt/wt)	100 : 30	
Mix viscosity(25°C,cps)	1,700~2,200	
(@40°C,cps)	650~950	
(@60°C,cps)	350~650	
Pot life (25°C) *	24 hours	
Cure procedure *	80°C × 2hrs + 120°C × 4hrs	
Hardness (Shore D)	89	
Shrinkage (%)	0.2~0.5	
Compression Strength (psi)	17,000	
Tensile Strength (psi)	4,500	
Thermal Conductivity (W/m · K)	0.5	
Dielectric constant	3.9	
Dielectric strength (KV/mm)	18.5	
Volume resistivity (Ω·cm)	5.0×10^{15}	
H.D.T.	130	
Frame Resistivity Level	UL 94V0 Approval	

* Pot life and cure time depend on the quantity and thickness.

The change of temperature and viscosity of E536 :



The initial mixed viscosity of E536/H536 at different temperatures :



Preparation :

1. Use proper container and mixing rod.
2. Mix E536 thoroughly prior to use.
3. Carefully weight out the desired amount of resin (E536) and hardener (H536) based on the mixing ratio 100 to 30 (by weight).
4. Mix thoroughly, especially the mixture at the edge of container should be scraped and mixed uniformly.



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5. Complete preparation and apply it within the pot life period.

Cautions :

1. Avoid contamination of each other E536 and H536.
2. Adequate ventilation is recommended during application and curing.
3. Avoid contacting eyes. In case of direct with eyes, immediately flush eyes with large quantity of water for least 15 minutes, and consult with a physician soon.
4. In case of skin contact, wipe off with clean and dry cloth or paper, wash with soap and water.
5. Do not swallow nor contact food.
6. Keep away from children.
7. This product is for industrial uses only.

Storage :

1. Store at $< 25^{\circ}\text{C}$ dry place. Avoid from sunlight, high temperature and high humidity environment.
2. Precaution must be taken to prevent E536 and H536 from contaminating each other during operation to ensure longer storage life.
3. In case of open, use up as soon as possible. If it is not bale to use up, the cover must be well sealed and kept on dry, shaded and cool place.

The above data offered are based on our laboratory works for customers' references only. The conditions of use, such as mix ratio, well mixed, cure condition (i.e., environment, temperature, humidity, and size), and treatment of target surface, can affect the final results. Therefore, it is imperative to test this product to determine the suitability of the product for its intended uses and applications. Fong Yong Chemical Co., Ltd. assumes no obligation or liability for use and makes no warranty, expressed or implied. Customers are solely responsible for their uses and applications. Welcome to consult our sales representatives for further technical assistance. 20170801

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