



TECHNICAL INFORMATION

技 術 資 料

Tech. No. E759 / H759

Fong Yong Chemical Co., Ltd.

E759 / H759

E759/H759 is a two-component, epoxy potting compounds. It is used as electrical/electronic potting, casting and encapsulating. The elastic and low shrinkage characteristics are best suited for sensitive electrical and electronic components.

Features :

1. The cured resin is elastic. The internal stress occurred during curing process is very slight, harmless to delicate electrical and electronic components potting.
2. Good adhesive strength and impact strength.
3. Excellent flame resistant, UL94V0 approval (E120665)
4. Excellent thermal shock resistance.
5. Can be cured either at room temperature or at elevated temperature.

Typical properties:

	E759	H759
Appearance	All Color Liquid	Clear to Light Yellow Liquid
Viscosity (25°C,cps)	10,000 ~ 40,000	50 ~300
Density(25°C)	1.51	0.97
Mix Ratio(wt / wt)	100	30
Pot Life (25°C,60g)*	60mins	
Gel Time	RT : 10-24hrs	
Cure Time*	RT : 7 days or Heat : 50°C - 60°C × 2hrs + 80°C × 2hrs	
Hardness (Shore A)	80~90	
Tensile Strength (psi)	720	
Elongation (%)	140	
Lap Shear Strength (psi, Iron—Iron) (psi, ABS-ABS)	380 464 (for reference only)	
Thermal conductivity (W/m·K)	0.5~0.7	
Dielectric Strength (KV/mm)	18	
Volume Resistivity(Ω-cm)	5.5×10^{13}	
Water Absorption (25°C, 24hrs,%)	< 0.4	
Use Temperature	-30°C ~ + 100°C	
Frame Resistivity Level	UL 94V0 Approval	

* Pot life and cure condition depend on the temperature of environment, and amount and thickness of use.

**Reference application temperatures are only available for the cured E759/H759 itself which was tested under the accurate operation (e.g. accurate mixing ratio, fully mixing...). The actual degrees of

application temperatures would be affected by whether the user correctly use the epoxy (such as whether the mixing ratio is correct, whether the mixture is stirred uniformly...), whether the epoxy is fully cured and the design structure of the applied components itself. Please do an accurate test before use.

How to use:

1. Prepare cleaned container and mix rod or blade.
2. Stir E759 thoroughly prior to use to ensure uniform distribution of the fillers.
3. Accurately weigh out E759 and H759 respectively in a 100 to 30 ratio into the container.
4. Thoroughly mix the mixture, scrape mixture on the edge against the container wall to ensure good mixing.
5. Ensuring quality, vacuum to de-air prior to use is recommended.
6. Gently pour into target. Avoid trap air in the mixture while pouring.
7. Cure in accordance of the cure conditions.

Caution:

1. Adequate ventilation is recommended during application and curing.
2. Avoid contacting eyes. In case of eye contact, immediately flush eyes with large quantity of water for least 15 minutes, and get medical attention.
3. In case of skin contact, wipe off with clean and dried cloth or paper, and wash with soap and water.
4. Do not swallow nor contact foods.
5. Keep away from children.
6. This product is for industrial uses only.

Storage :

1. Store at 25°C or lower and dry place. The shelf life is 9 months in unopened original container.
2. Avoid from sunlight, high temperature and high humidity environment.
3. Use up as soon as possible when opened. If customer does not use all up in once, please seal tightly to preserve left over.
4. Do not contaminate resin and hardener with each other to prevent from curing during storage.

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. 20200805

寰亞化工有限公司 FONG YONG CHEM. CO., LTD.

23867 新北市樹林區中正路 216 之 2 號 2 樓

2F., No.216-2, Zhongzheng Rd., Shulin Dist.,

New Taipei City 23867, Taiwan (R.O.C.)

TEL:+886-2-2682-4939 (Rep.)

FAX:+886-2-2683-4333

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