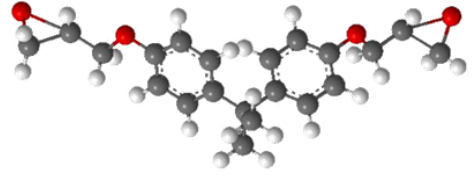


# EPORITE



## EPORITE 5100

### GENERAL

EPORITE 5100 is one-component epoxy impregnating system which is recommended as the varnish of wire circuit such as motor dip coating which requires good mechanical properties and dielectric properties.

### STORAGE

Seal the containers tightly & store at temperature lower than 5°C but not less than -10°C. Unfreeze at room temperature at least 2 ~ 4 hour before using.

### HANDLING AND SAFETY

Gloves and glasses are suggested for user's personal protection. Clean with soap and water when skin contact.

### PROCESSING

1. Preheat the circuit coil at 130°C. Dip the coil into the EPORITE 5100 associated with vacuum to make sure the glue fully impregnated.
2. Cure at temperature 130°C/20 hr or 150°C/10 hr.

NOTE: The process can be adjusted according to the specific manufacturing process or performance requirement.

### SPECIFICATION

Specification	EPORITE 5100
Chemical Type	Epoxy Compound
Appearance	Clear Liquid
Specific Gravity	1.1 ± 0.1
Viscosity (25°C)	1500 ± 1000 cps
Shelf Life (5°C)	3 months
Gel Time (150°C)	3-4 min/0.1 g (a drop)
Curing Condition	130°C/20 hr or 150°C/10 hr

### PROPERTIES OF THE CURED RESIN\*\*

Property	EPORITE 5100
Hardness (Shore D)	85 ~ 95
Glass Transition Temperature (°C)	100 ~ 120
Coefficient of Thermal Expansion (mm/mm/°C)	( $\alpha_1$ ) 60 ~ 80×10 <sup>-6</sup> ( $\alpha_2$ ) 190 ~ 250×10 <sup>-6</sup>
Moisture Contain (wt %)	< 0.3

\*\*curing condition:130°C/5hr

#### REMARK

The information contained is believed to be reliable and only for the reference without any effective guarantee for the application of the user. The user is responsible to determine the suitability for the user's application and the reliability of the products. Epolab Chemical will not accept claim of warranties of the fitness or reliability for a particular purpose especially the liability for consequential damages of end products.



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