

# ***EPORITE EHM-30801***

## **GENERAL**

EPORITE EHM-30801 is a one-component epoxy hot melt system recommended especially for fiber-reinforced prepreg.

The cured EPORITE EHM-30801 exhibits excellent physical properties such as mechanical strength, and heat stability.

## **STORAGE**

Store EPORITE EHM-30801 at temperature lower than 5°C.

## **HANDLING AND SAFETY**

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

## **PROCESSING**

1. Coating process: 70 ~75°C
2. Impregnation process: 100~105°C
3. Storage: lower than 5°C

\*Above all temperatures are suggested temperatures.

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

## **SPECIFICATION**

Specification	EPORITE EHM-30801
Chemical Type	Epoxy Compound
Appearance	White solid
Specific Gravity	1.2± 0.1
Viscosity (70°C)	40000 ± 10000 cps
Shelf Life	6 months (5°C) or 1 month (25°C)
Gel time (min , 0.2g @ 150°C)	1.0 ~ 3.0
DSC peak time (min, 150°C)*	0.5 ~ 2.0
Glass Transition Temperature (°C)	110~ 130

\*cure condition: DSC, Isothermal, 150°C/60min

## **PROPERTIES OF THE CURED RESIN**

Specimen Information (Prepreg are provided by the customer, The test data for reference)

UD Prepreg :TC-36; 24T; RC: 37.8% FAW=100 g/m<sup>2</sup>;

Molding thickness: 4.0mm (About 40 layers Unit-dimension (0°))

lamination by 130 °C(effect temperature) cure 5mins.

Mechanical Property	EPORITE EHM-30801
Tensile Strength (ASTM D3039)	1014.1 MPa
Tensile Elongation (ASTM D3039)	1.4 %
Tensile Modules (ASTM D3039)	69.7 GPa
Flexural Strength (ASTM D790)	1055.5 MPa
Flexural I Modules (ASTM D790)	68.3 GPa
ILSS (ASTM D2344)	87.6 MPa
Izod Impact (ASTM D256 type E)	799.7 J/m

## **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. We will not accept claim of warranties of the fitness or reliability for a particular purpose especially the liability for consequential damages of end products.