

EPORITE

EPORITE EHM-82



GENERAL

EPORITE EHM-82 is a one-component epoxy hot melt system recommended especially for fiber-reinforced prepreg.

The cured EPORITE EHM-82 exhibits excellent physical properties such as mechanical strength, and heat stability.

STORAGE

Store EPORITE EHM-82 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
4. Curing Condition:
 - A. Table rolling process: 90 ~ 100°C / 0.5 hr + 150°C / 1.5 hr.
 - B. Molding process: 150°C / 0.5 ~ 1 hr.

*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-82
Chemical Type	Epoxy Compound
Appearance	white solid
Specific Gravity	1.2± 0.1
Viscosity (70°C)	395000 ± 135000 cps
Shelf Life	6 months (5°C) or 1 month (25°C)
Gel Time (min, 0.2g @ 150°C)	2.0 ~ 4.0
DSC Peak Time (min, 150°C)*	1.0 ~ 3.0
Glass Transition Temperature (°C) *	110 ~ 140

PROPERTIES OF THE CURED RESIN

Specimen Information:

(Prepreg is provided by the customer, test data for reference.)

UTS-50-12K, 24T, RC 38%, FAW 240; Unit-dimension (0°).

Thickness: 3.1mm (about 23 layers), 100 °C laminating + 130 °C / 4hr post curing.

Mechanical Property	EPORITE EHM-82
Flexure Strength (Mpa)	> 1200
Young's Modulus (Gpa)	> 108
Tensile stress (MPa)	> 1100

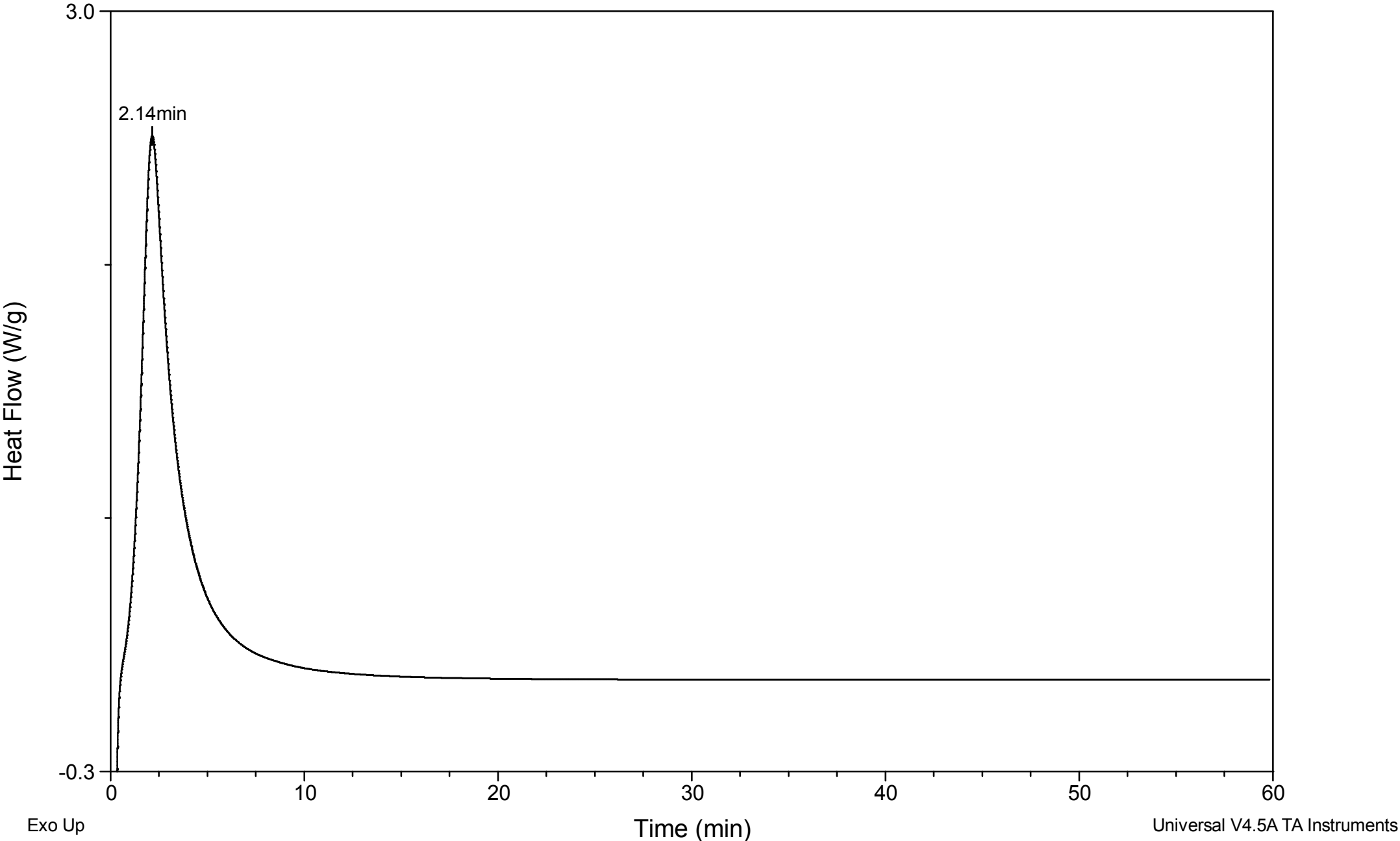
REMARK

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.

Sample: EHM-82
Size: 7.3000 mg
Method: ISO150 + SCAN 200
Comment: 19111407 VIS=427000CPS

DSC

File: D:\DSC\品管數據\EHM\108年\EHM-82\19111407.00
Operator: may
Run Date: 15-Nov-2019 08:11
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