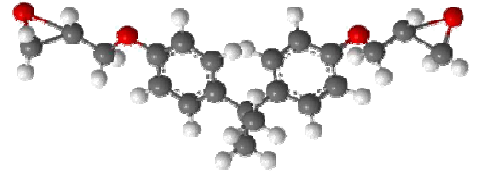


EPORITE



EPORITE EHM-FR031

GENERAL

EPORITE EHM-FR031 is a one-component epoxy hot melt system recommended especially for fiber-reinforced prepreg.

EPORITE EHM-FR006 is laminated with carbon fiber to achieve UL94 V-0

The cured EPORITE EHM-FR031 exhibits excellent physical properties such as mechanical strength, and heat stability.

STORAGE

Store EPORITE EHM-FR031 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. Prepreg storage: lower than 5°C
3. Molding process: 150°C / 0.5~1 hr + 150°C / 2~2.5 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-FR031
Chemical Type	Epoxy Compound
Appearance	Black/White Semi-solid
Specific Gravity	1.2± 0.1
Viscosity (70°C)	36000 ± 12000 cps
Shelf Life	6 months (5°C) or 1 month (25°C)
Gel Time (min, 0.2g @ 150°C)	4.0 ~ 8.0
DSC Peak response time (min, 150°C)*	2.0 ~ 4.0
Glass Transition Temperature (°C) *	130 ~ 150

*Curing conditions :DSC, Isothermal, 150°C/60min

PROPERTIES OF THE CURED RESIN

Specimen Information:

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

TC-36S-12K · 24T · RC 37% , FAW=150g ; Unit-dimension (0°)

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

Mechanical Property	EPORITE EHM-FR031
Flexure Strength (Mpa)	> 1100
Young's Modulus (Gpa)	> 110
Tensile stress (MPa)	> 820

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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