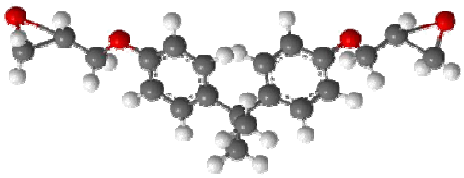
EPORITE



EPORITE ESP-135 A / B

GENERAL

EPORITE ESP-135 A / B are two-components & solvent type epoxy compounds recommended especially for fibre-reinforced prepreg with process of filament winding or drum winding.

The cured EPORITE ESP-135 A / B exhibits excellent physical properties such as mechanical strength, and heat stability.

STORAGE

Store EPORITE ESP-135 A / B at temperature lower than 5~30℃. Keep the containers at dry place & sealed tightly.

HANDLING AND SAFETY

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

PROCESSING

1. Well mixed with mixing ratio A:B = 100:5 by weight
2. Suitable for standard drum winding prepreg process.
3. Impregnation process: 70 ~80℃/ 0.5 hr
4. Molding process: 130 ~ 150℃/ 1 ~ 1.5 hr.

*All of above temperatures are suggested temperatures.

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

SPECIFICATION

Specification	EPORITE135A	EPORITE 135B
Chemical Type	Epoxy Resin	Modified Amine
Appearance	Light Yellow Liquid	White Solid
Specific Gravity	1.2 ± 0.1	1.2 ± 0.1
Viscosity (25℃)	< 100 cps	-
Mixing Ratio (by weight)	100	5
Shelf Life (25℃)	6 months	6 months
Mixing Viscosity (25℃)	< 2000 cps	
Solid Content (80℃)	55~65%	
Gel Time (130℃)*	7 min/0.2 g	
Curing Condition	70 ~ 80℃/0.5 hr + 130~150℃/1~1.5hr	

*Place mixture at 80℃ for 0.5h, then measure the gel time at 130℃.

PROPERTIES OF THE CURED RESIN

Property	EPORITE ESP-135 A / B
Glass Transition Temperature (℃)	115 ~ 135
Flexure Strength (N/mm^2)	> 135
Young's Modulus (Mpa)	> 3450

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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