



Product Technical Data (TDS)

Product name: carbon fiber unidirectional prepreg

Product specifications: BYPrepreg-300UC CF12 38

Product appearance: black one-way

Application: Can be used for aerospace and industrial composite materials and other products.

Product advantages: 30min curing at 150°C and good physical strength.

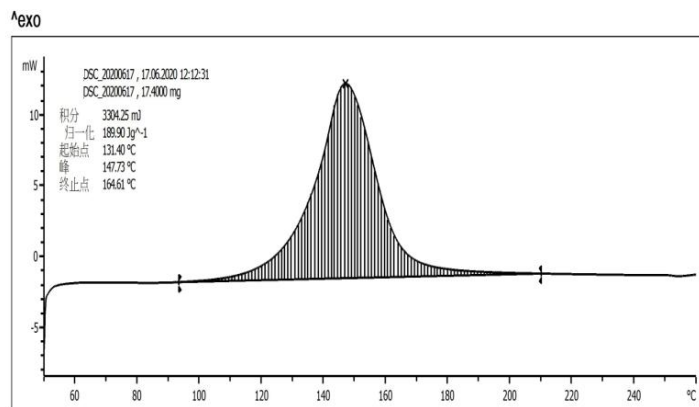
Product features:

Fiber surface density (g/m ²)	Resin content (%)	Thickness (mm)
200±6	38±3	0.3

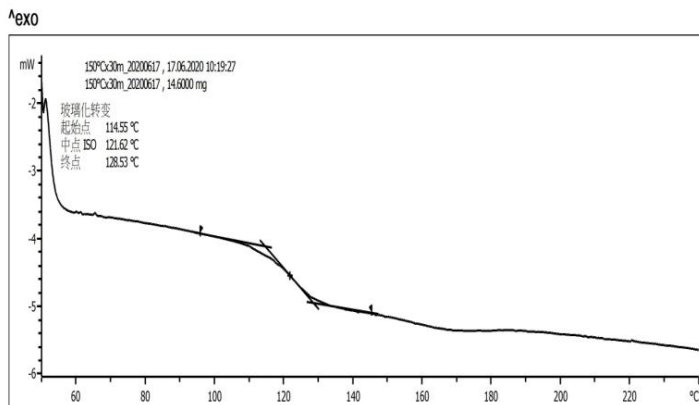
Resin properties:

Molding: 150 degrees for 30 minutes.

DSC 图



TG 图





Mechanical properties:

Test item		Inspection method	Test result
Tensile strength	MPa	ASTM D3039	2356
Tensile modulus	GPa	ASTM D3039	118
Bending strength	MPa	ASTM D7264-15	1518
Bending modulus	GPa	ASTM D7264-15	112
Interlaminar shear strength	MPa	ASTM D7264-15	82.3
Impact strength	KJ/m2	ISO 179-1	

Usage: The recommended operating temperature is 25 ± 3 ° C.

Refrigerated product Precautions for use	➤ Leave unopened products at room temperature for at least 8 hours (25 ± 3 ° C) and preferably 24 hours after removal from cold storage ➤ Ensure that the prepreg temperature is close to room temperature before unsealing ➤ Prevent water condensation and impurity adhesion on the surface of the prepreg ➤ Do not bend the prepreg at 90° to avoid fiber damage
Product cutting at room temperature Precautions for use	➤ Do not stain hands with oil during operation ➤ Control the temperature and humidity of the operating environment to prevent moisture of the prepreg ➤ If the prepreg is not used after opening, keep it sealed and refrigerated ➤ The cut prepreg must be used within 7 days

Storage conditions:

The storage of products should adopt the principle of low temperature and sealing, and it is recommended that the storage temperature be $< 0^\circ\text{C}$. The life of prepreg is affected by the melting temperature, transport temperature and time before the resin is made into prepreg.

Storage temperature	Storage life
Room temperature 25°C	15 days
Below 0°C	90 days
Below -18°C	180days

Disclaimer: The data in this note are obtained under ideal conditions, and users must make appropriate adjustments strictly according to the actual environment and needs of use.