

LTP 220 Low Temperature Pre-curing Tooling Prepreg

DESCRIPTION :

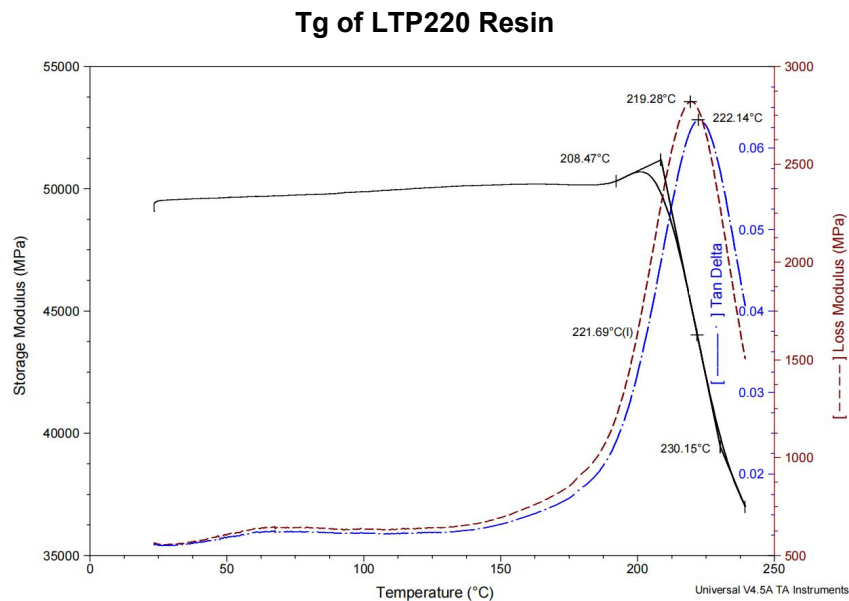
LTP 220 is an epoxy resin system that can be pre-impregnated into high performance fibers such as carbon and glass. This resin has excellent mechanical properties and high transparency after complete curing, making it particularly suitable for the production of prepreg mold.

LTP 240 has 7 days shelf life at 22°C, and is able to get initial cure at 55°C, which could reduce the deformation of plug. After fulling post-curing, Tg could reach up to 220°C (DMA).

CHARACTERISTIC :

- 7 days Shelf life at RT 22°C
- 12 months shelf life at -18°C
- Good surface quality after curing in autoclave
- Laminating on low Tg plug
- No need support during post-curing
- Service temperature up to 190°C

RESIN PROPERTY :



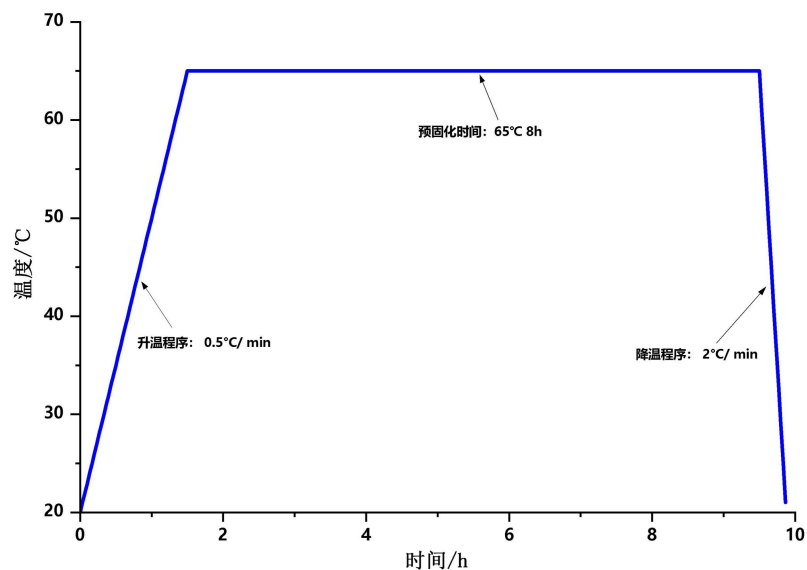
REINFORCE MATERIAL :

Type of Fiber	Weight (gsm)	Weave style	Resin content
High strength Carbon 3K	200	2/2 Twill	50 (surface ply)
High strength Carbon 12K	480	2/2 Twill	40
High strength Carbon 12K	650	2/2 Twill	40
Carbon-glass composite fiber	50+150	2/2 Twill	38
Carbon-glass composite fiber	150+450	2/2 Twill	38
Fiberglass fabric	Customized	2/2 Twill	35

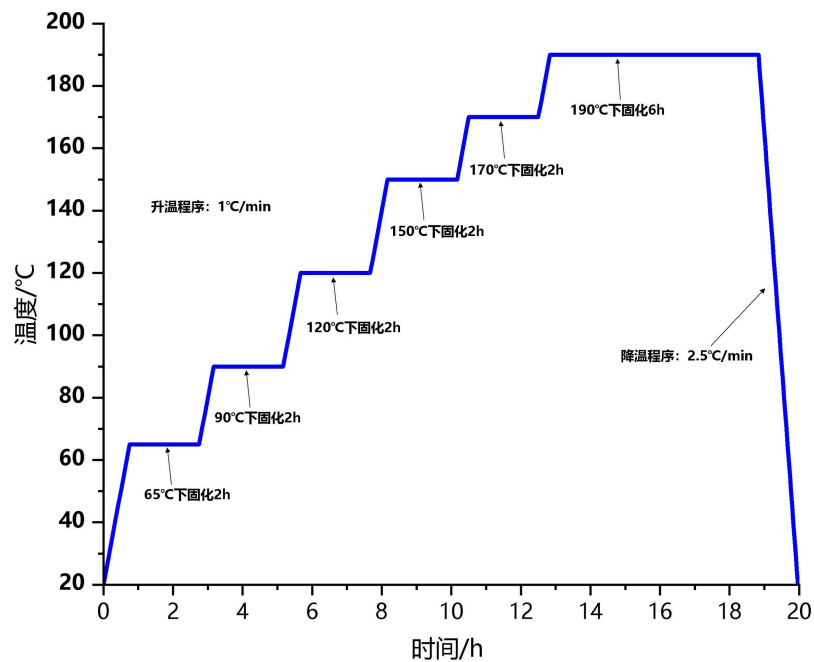
CURING SCHEDULE:

Pre-curing	0.5℃/min to 65℃	0.5-0.7 MPa Pressure	Dwell for 8 hours
	The pre-curing temperature must not exceed 80℃ to avoid high exothermic temperature.		
Post-curing	1℃/min to 65℃		Dwell for 2 hours
	1℃/min to 90℃		Dwell for 2 hour
	1℃/min to 120℃		Dwell for 2 hour
	1℃/min to 150℃		Dwell for 2 hour
	1℃/min to 170℃		Dwell for 2 hour
	1℃/min to 190℃		Dwell for 6 hours
Cooling	Cooling to 50℃ at 2.5℃/min		
Glass Transition Temperature	240-250℃ (DMA)		

预固化工艺



后固化工艺



STORAGE CONDITION:

Shelf life of LTP 220 is 10 days at ambient temperature 7 °C , refrigerated storage at -18°C is one year.

To avoid moisture condensation, following removal from cold storage, allow prepreg to reach room temperature before opening the polyethylene bag.

HANDLING PRECAUTIONS

It should be processed at well-ventilated room; avoid to contact with skin during handling process; wear gloves, mask, safety glass and protective clothing.

For further information, please consult material safety data sheet.

NOTE:

The data above is tested at specific conditions. Processing procedure and conditions might vary in practical applications, therefore it is recommended to carry out tests where necessary before using the product, and to ensure the product could meet the actual requirement. We at EPTEK guarantee that our products meet our highest quality management regulations.