

Thermoplastic pre-preg lines make use of a polymer system that has reoccurring plasticity with heat. The polymer can be heated and reheated multiple times, and typically flows as a liquid when hot. The use of thermoplastics in composites is less wide-spread than thermoset polymers & resins. Thermoplastics are seen as a lower cost, higher production rate alternative to the traditional thermoset pre-pregs, particularly given that thermoset pre-pregs, stage materials, have a limited shelf life, require temperature controlled storage, and contain hazardous/noxious materials.

Pre-preg lines combine a number of Cygnet Texkimp core skills and products. Most pre-preg lines consist of:

For more information contact us:

### **CYGNET TEXKIMP**

Swan House, Kimpton Drive,  
Off Wincham Lane, Northwich,  
Cheshire. CW9 6GG

Tel: 01606 338748

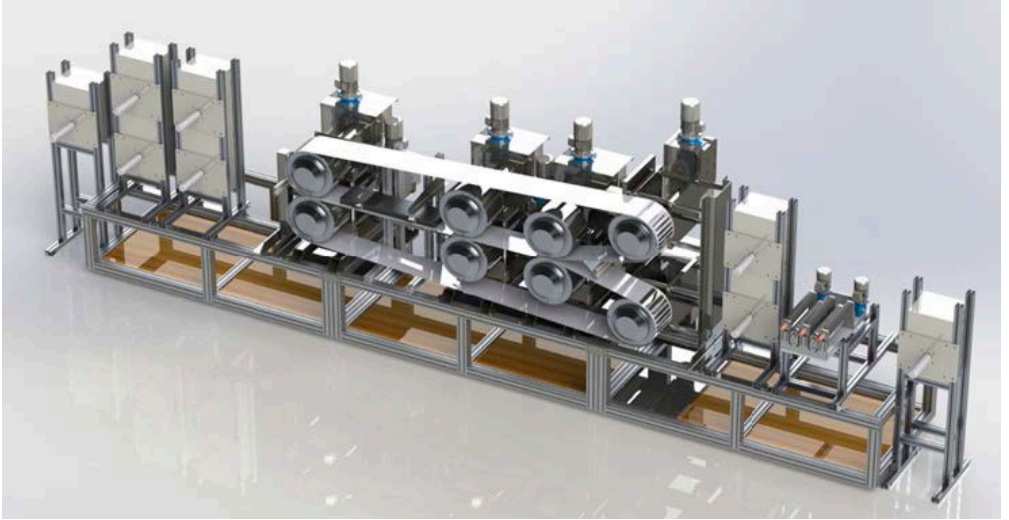
Fax: 01606 338749

email: [info@cygnet-texkimp.com](mailto:info@cygnet-texkimp.com)

web: [www.cygnet-texkimp.com](http://www.cygnet-texkimp.com)

- Unwinding: of paper, films, filaments, and fabrics
- Spreading
- Tensioning
- Coating
- Compaction
- Thermal Treatment
- Slitting and Trimming
- Rewinding

# THERMOPLASTIC PRE PREG



Specification can be varied to suit any requirement

Process Speed	0-20m/min
Product Width	6 (150mm) wide to 70 (1780mm) or greater
Temperature	Up to 450C (850F)
Materials	Fibre Glass, Carbon, Aramid
Polymer	PEEK, PPS, Nylon, PP, PES

Cygnat Texkimp maintains both thermoset and thermoplastic testing lines at its research and development laboratory. The pilot equipment is available for use by our clients to enable process/product development and process evaluations.