

Aerospace

AMBERCOMPOSITES

Amber Composites has a long history of providing tooling materials for commercial aviation for both interior and exterior parts. In addition, our component systems are in use on leading UAV's. Our material is used by well-known companies such as Airbus and Eurocopter, and our flexibility enables us to serve small to medium companies as well.

To meet the increasing demands within this market, Amber Composites continues to develop high-performance prepreg systems for the cost-effective manufacture of high quality components. Our wide range of materials includes cyanate ester prepreg for high-temperature performance, as well as a full range of core materials for weight reduction and stiffening of highly loaded structures.

WHY AMBER COMPOSITES

- ▶ We offer a full range of high-performance composite material
- ▶ We provide technical service that goes above and beyond the expected
- ▶ We lead the industry in response times

Typical applications



TOOLING [Master to Model]

We provide a suite of compatible products for tool making, including tooling board, tooling paste, sealers, release agents, tooling prepreg, vacuum bags and all other consumables. We also manufacture gusset panels that we designed specially for backing and support for large tools. Gusset panels are available in either glass or carbon prepreg skins and are capable of high temperature cure cycles.



AIRCRAFT INTERIORS [Flooring, Galleys, Modules]

We offer component prepreg, ranging from low-temp to mid-temp epoxy curing systems. We also supply Nomex honeycomb sandwich panels which can be made to your specification (various grades and cell sizes).



AIRCRAFT MAINTENANCE

We provide a full range of epoxy laminating resins, infusion resins and dry fabrics suitable for quick repair and maintenance tooling, and we supply aluminum honeycomb and flexcore for the manufacture of structural parts.

More about Amber Composites

Our mission is to be the easiest and most efficient place to source high quality composite materials. We want customers to expect consistent quality and service from us and to receive greater value than they expected.

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Schiebel Customer Spotlight

Schiebel developed the CAMCOPTER® S-100, a highly versatile, autonomous Unmanned Aerial Vehicle (UAV) with a unique balance between advanced capabilities and operational efficiency in the field. The system consists of a compact helicopter aerial vehicle that can be fitted with a wide variety of payloads tailored to meet diverse user requirements. The CAMCOPTER is predominantly made of carbon fiber prepreg to provide a superior strength/weight ratio while providing maximum capacity for a wide range of payload/endurance combinations.

REQUIREMENTS



- ▶ Low temperature prepreg system for the initial component prototyping
- ▶ Tooling prepreg system exhibiting superior dimensional stability and excellent surface finish
- ▶ Specialized mid-temperature structural system including 1K 120g carbon prepreg; a variety of adhesive films, and honeycombs and syntactic core materials
- ▶ Unique material tests, meeting environmental conditions imposed by Schiebel customers
- ▶ Very flexible, fast acting and absolutely reliable system supplier

AMBER SOLUTION



- ▶ High precision tooling prepreg for all molded parts
- ▶ High accuracy, high temperature resistant component prepreg
- ▶ Worked hand in hand to spec, test and improve materials
- ▶ Complete service partnership, including training and product development

