Ama Fans

GLOBAL INVENTION PATENTS

# Recyclable Composite Fan Blades

Lightweight construction and high strength for high-performance fan blades.



## Recycling, Carbon Footprint & Resin System



**SGS ISO 14021**
Recyclability verification



**SGS ISO 14067**
Carbon footprint verification



**EzCiclo RB508**
Recyclable epoxy resin system

## Material Properties

Data from the technical data sheet (TDS)

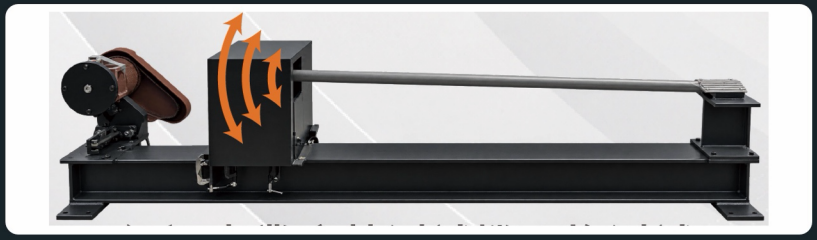
| | | |
|---|---|---|
| Tensile strength<br>**> 60 MPa** | Flexural strength<br>**> 100 MPa** | Glass transition (Tg)<br>**> 115 °C** |
| Mixed viscosity at 25 °C<br>**800–1,400 cP** | Pot life at 25 °C<br>**> 4 hours** | Processing method<br>**Pultrusion** |

**Recyclable composite** • **Excellent heat resistance** • **Good mechanical performance**

SGS FATIGUE TEST

# Over 50 million cycles

Quality that stands up to testing



Rigorously tested on a professional fatigue test machine.

**50% lighter fan design**
Fan weight per patent M674627

**Approx. 50× fatigue-test cycles**
50× compares 50.2 million AH blade test cycles with a ~1 million-cycle aluminum reference.

**A new benchmark in energy efficiency**



SGS fatigue test report