

KAVO Carbon Fiber Frame Product Specification Document

Product Information

- **Product Name:** KAVO Carbon Fiber Frame
- **Model:** zelo
- **Material:** Carbon Fiber
- **Company Name:** Yiqiao Leisure Co., Ltd.
- **Company Address:** 7th Floor, No. 27, Xinchang Street, Fengshan District, Kaohsiung City, Taiwan

Product Photo



1. Main Components

Component	Description
T1000 Carbon Fiber	High-strength carbon fiber providing excellent strength and rigidity.
Epoxy Resin	Used as an adhesive for carbon fiber, enhancing structural stability.
Reinforcing Materials	Optional fibers (such as aramid fiber) to improve toughness.

2. Auxiliary Components

Component	Description
Filler	Improves resin flow and reduces costs (e.g., talc powder).
Catalyst	Accelerates the resin curing process, ensuring quality formation.
Antioxidant	Increases the durability of the resin, preventing aging.

3. Physical Properties

Property	Value
Density	Approximately 1.6 g/cm ³
Tensile Strength	Approximately 5000 MPa
Bending Strength	Approximately 7000 MPa
Elastic Modulus	Approximately 230 GPa

4. Application Characteristics

- **Weight:** Lightweight design suitable for racing and high-performance cycling.
- **Rigidity:** Provides exceptional rigidity, enhancing riding stability.
- **Durability:** Excellent impact resistance and wear resistance.

5. Manufacturing Process

- **Hand Layup:** Manually stacking carbon fiber layers to achieve the desired strength and shape.
- **Vacuum Infusion:** Using vacuum technology to remove bubbles, ensuring even resin distribution.
- **High-Temperature Curing:** Curing the resin at high temperatures to enhance strength and stability.

Company Stamp