

RCF[®]

Recycled Carbon Fiber

RCF is a new brand introduced by Thermolysis company, dedicated to producing products using recycled carbon fiber as raw material. It utilizes 100% recycled materials and commits to a 100% recycling rate once the product reaches the end of its life cycle.



UL 2809
Recycled Content Validation



ISO 14067
Carbon Footprint Verification

Bike Accessories Product Catalog

2024

About Thermolysis

Founded in 2016, Thermolysis is a Taiwan-based enterprise committed to continuous innovation. We specialize in the development and integration of high-temperature thermal treatment systems, applied particularly to "carbon fiber recycling." Since 2020, we have been constructing carbon fiber recycling and regeneration factory lines, engaging in large-scale processing and production of recycled carbon fiber. Moreover, we are among the few global enterprises capable of processing and mass-producing recycled carbon fiber.

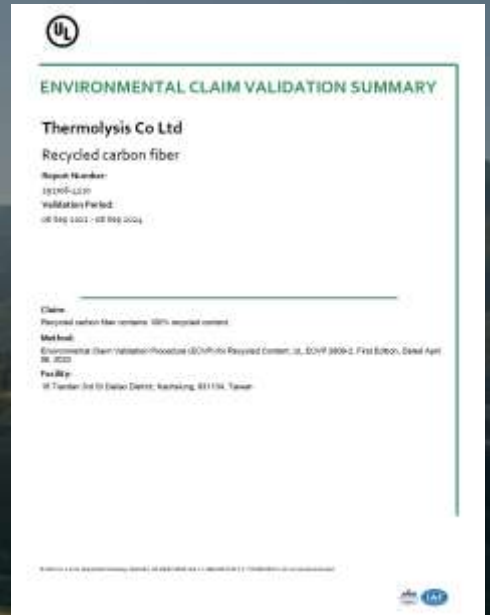
In addition to mass-producing recycled carbon fiber, Thermolysis also designs and manufactures products made from recycled carbon fiber, including carbon fiber paper, Non-Woven, and Masterbatch. This facilitates the easier integration of recycled materials back into the original production lines for processing. Furthermore, we extend our efforts into intermediate products, including "recycled carbon fiber prepreg," "recycled carbon fiber thermoplastic laminates," and "recycled carbon fiber tube."



UL2809 Recycled Material Content Validation

"UL 2809 Recycled Content Verification is established by Underwriters Laboratories Inc. (UL). Its purpose is to assist businesses in evaluating the specified percentage of post-consumer, pre-consumer/post-industrial recycled content, or the total recycled content of a product."

To earn the trust of our customers, Thermolysis commissions UL to certify the source of incoming materials. In early 2022, we obtained UL 2809 Recycled Content Verification for the first time, providing a fully transparent and traceable record of incoming materials. This is to verify that the materials processed by Thermolysis are indeed recycled.



ISO 14067 Carbon Footprint

The Carbon Footprint of our process has been certified by the internationally accredited standard of ISO 14067. With 5.047 kg of CO₂e per kg of fiber recovered, we emit only ¼ of CO₂ than those of virgin carbon fiber.

By adopting Thermolysis' recycled carbon fiber, customers can realize the financial and environmental benefits from the immediate reduction of carbon footprint, as well as having product differentiation by using sustainable material.



The carbon fiber material is both durable and lightweight, providing a smooth and unhindered riding experience. The use of recycled materials not only enhances environmental sustainability but also contributes to carbon reduction. Enjoy the exhilaration of wind-aided cycling while making a positive impact on the environment with our eco-conscious and stylish bike accessories.



RCF Bike Bottle Cage
with Braided Pattern



RCF Bike Bottle Cage



Road Bike Shoe Sole



RCF Bike Bottle Cage with Braided Pattern

Materials : Recycled carbon fiber, Nylon 6
 Specification : Height 15.5cm X Width 7.5cm
 Weight : 25g

Feature :

- 1) Using 100% recycled carbon fiber.
- 2) The recycled material used is sourced with "UL 2809 Recycled Content Validation," ensuring transparency and accurate traceability of its origin.
- 3) The recycled carbon fiber undergoes a production carbon footprint verification through "ISO 14067 Carbon Footprint Certification," confirming emissions are only a quarter of virgin carbon fiber.
- 4) Strong wrapping capability ensures secure placement of water bottles even on rough and bumpy roads.
- 5) One-piece injection molding process for a sleek and minimalist design.
- 6) Carbon fiber material combines high strength with lightweight properties, providing a smooth and unobstructed journey.
- 7) Include white iron fixing screws as a complimentary accessory.



RCF Bike Bottle Cage

Materials : Recycled carbon fiber, Nylon 6
 Specification : Height 15.5cm X Width 8cm
 Weight : 25g



RCF Road Bike Shoe Sole

Materials : Recycled carbon fiber, Nylon 6, TPU

Feature :

- 1) Using 100% recycled carbon fiber.
- 2) The recycled material used is sourced with "UL 2809 Recycled Content Validation," ensuring transparency and accurate traceability of its origin.
- 3) The recycled carbon fiber undergoes a production carbon footprint verification through "ISO 14067 Carbon Footprint Certification," confirming emissions are only a quarter of virgin carbon fiber.
- 4) High wear resistance, high strength, minimal deformation.



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