



# Carbon Fiber Recycling, Inc.

[www.CarbonFiberRecycling.com](http://www.CarbonFiberRecycling.com)

TAZEWELL, TN 37879

## ABOUT US

**Carbon Fiber Recycling, Inc.**  
is a sustainable materials company, developing  
and operating technologies for the recovery of  
resources from difficult to recycle polymer  
composites.



## WHAT WE DO

- The primary competence of CFR lies in the advanced recycling of difficult to handle materials.
- CFR can extract short, clean, and usable carbon fibers from most type of carbon fiber waste.
- We are specializing in the recovery of valuable resources through a thermal desorption process, also known as thermolysis or pyrolysis.

- In particular are we targeting highly filled polymers from carbon fiber composites.
- Our process recovers all the epoxy resin present in carbon fiber composites. Our main objective is to create a fundamentally different recycling option for carbon fiber composites.
- Far too much carbon fiber is ending up in landfills (recent estimates are north of 90,000 tons annually as of 2020. With over 130,000 tons of carbon fiber being produced in 2020.

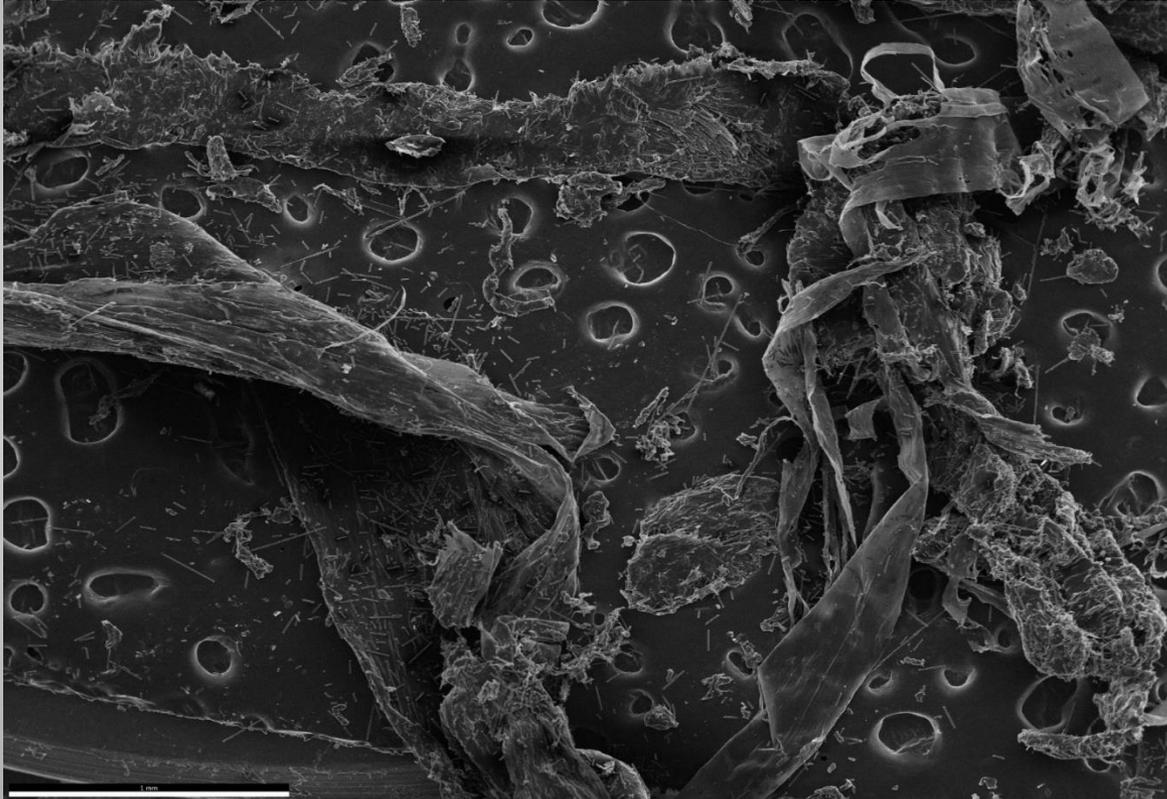
# WHAT WE CAN RECYCLE

- **Carbon Fiber Recycling has the ability to recycle all cured, uncured, and prepreg carbon fiber.**
- **We can liberate the carbon fiber from polymers and return it back in a chopped, random length. From that point we offer chopped and milled fiber from the fiber we recycled.**

# AUTO PART MOLDS BEFORE BEING RECYCLED



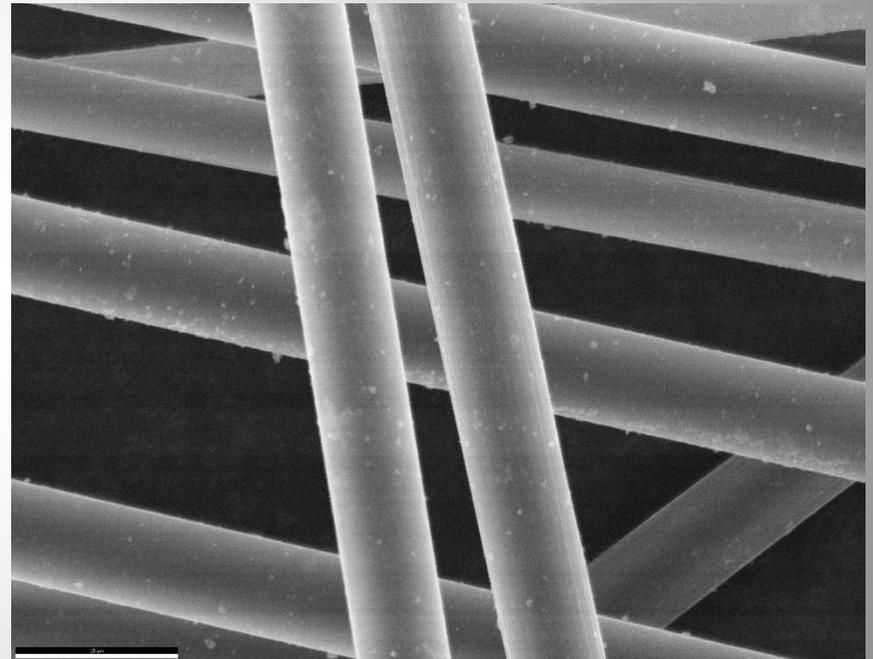
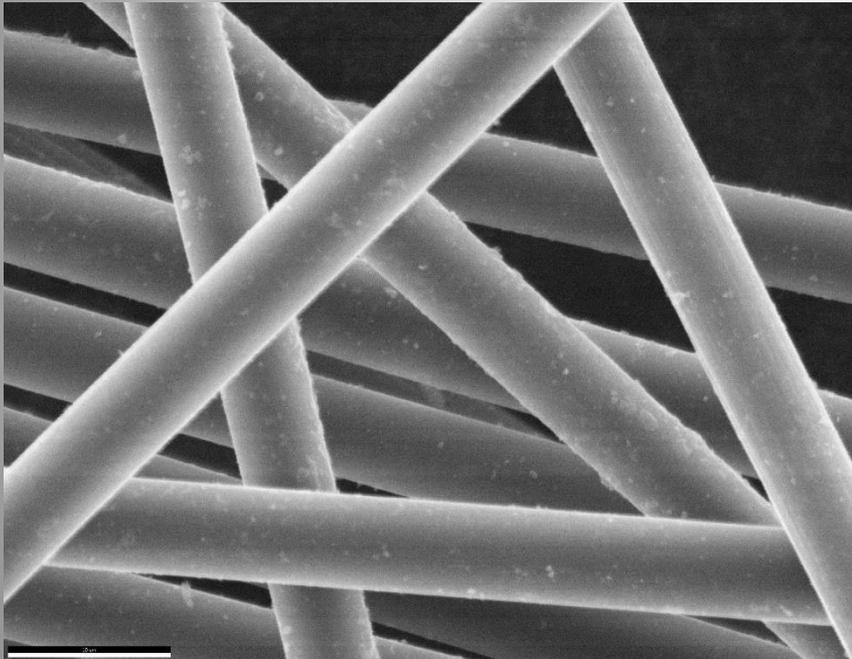
# PRE-PREG CARBON FIBER BEFORE PYROLYSIS



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# PRE-PREG CARBON FIBER AFTER CARBON FIBER RECYCLING'S PYROLYSIS PROCESS



# RECYCLED CARBON FIBER FROM AUTOMOTIVE WASTE STREAM



# WHAT IS NOT RECYCLED?

- **Nothing!**
- **We can recycle every aspect of the carbon fiber recycling process.**
- **Our by-products of petroleum and methane are used to run the reactor and the facility, so we can supply our own energy.**

# NASCAR PROJECT

- Recycling project with NASCAR



- To celebrate their 40-year presence at the Daytona 500, Busch Beer developed 40 collector beer cans made of sheet metal and carbon fiber from Kevin Harvick's race car.
- We recycled the carbon fiber used to make the cans.



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# CAPABILITIES OF OUR TENNESSEE FACILITY

- **Our newest facility, located in Tazewell, TN will have the ability to recycle 4 million pounds of carbon fiber per year.**
- **After we extract the epoxy resin, we will have 2.4 million pounds of clean carbon fiber going back into the composites industry**
- **That level of recycling can have a significant impact on keeping carbon fiber waste out of the landfills.**

# SUPPORT OF THE CARBON FIBER INDUSTRY

- **We need the support of the carbon fiber industry to help sustain the recycling effort. We all need to do our part to keep as much carbon fiber as possible out of the landfills.**
- **In addition to the industrial and financial benefits to all parties who recycle, we are helping conserve natural resources and the planet.**

# POSSIBILITIES FOR FUTURE EXPANSION

- **Future include establishing a facility on the West Coast which will help with shipping costs for many clients.**
- **Long range plans are to expand into Europe and establish multiple facilities.**



# Carbon Fiber Recycling, Inc.

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