



*arovex*®

**THE TOUGHEST**

CARBON FIBER PLATFORM IN THE WORLD

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ALLOWING **YOUR PRODUCTS**  
TO SET THE STANDARD

# *arovex*<sup>®</sup>

Arovex<sup>®</sup> is a **next generation carbon fiber and glass composite** that **uses advanced molecule chemistry** for **superior mechanical strength, durability, and performance**, with **half the weight of aluminum**.

Arovex<sup>®</sup> is **reinforced with carbon nanotubes** and **graphene**, efficiently distributed using R&D100-award winning molecular dispersion technology. What this means is greatly improved toughness, improved mechanical performance, reduced part failure, and **new standards set for your products**.



## **CASE STUDY 1 – AEROSPACE**

Zyvex partnered with a leading global aerospace engine manufacturer to develop a nacelle lining for their next generation jet engine. Arovex<sup>®</sup> was tested against the strongest and toughest composites in the world, beating every other performance prepreg in the key area of toughness. Toughness means more durable products and greatly reduced failure rates.

Arovex<sup>®</sup> delivered a combination of high strength, lightweight, and durability unmatched by any material on the market.

### **THE RESULT**

Arovex<sup>®</sup> improved toughness by 25% without increasing weight or cost.

## **CASE STUDY 2** – SPORTING GOODS

ENVE Composites, creators of the world's toughest bikes for the world's toughest downhill races, turned to Zyvex and our Arovex® prepreg material to give their riders the winning edge.

Zyvex partnered with ENVE to develop tougher, champion-quality wheels for their downhill performance bike. Arovex® was intended to reduce wheel fracture and improve overall durability.

### **THE RESULT**

Arovex® reduced fractures per season from 75 to ZERO.





At Zyvex, we've been helping our customers for 15 years, developing practical, cost-effective solutions that deliver a sustainable competitive advantage in their products. That's why we are partnered with companies across a \$40 billion dollar resource pipeline, and trusted by industry leaders for products that can't afford to fail.



## A FEW OF OUR PARTNERS:

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## WHAT WILL YOU USE AROVEX<sup>®</sup> PREPREG FOR?

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Our chemists and materials scientists can work with your design and manufacturing teams every step of the way, from design to raw materials sourcing to turnkey production. So whether you're looking for a competitive edge or creating the next generation product in your industry, let Zyvex put you ahead of the competition with Arovex<sup>®</sup>.



### **Material products include:**

- Prepregs
- Film Adhesives
- Epoxy Adhesives
- Laminating Resins

### **Contact Zyvex**

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