

## Composites and Laminates

### ASK DR. AFI

Looking for a solution?  
Have a quality issue?  
Need a better bond?  
Must have improved  
product durability?

What's **your** dilemma?  
Submit it to us at:

[info@adhesivefilms.com](mailto:info@adhesivefilms.com)

We'll do our best to help  
you find the answer!!



What is a composite? The end product—a composite or laminate—is the successful marriage of other products. What holds them together? An adhesive film!

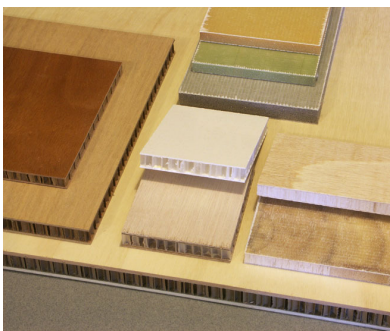
From the structural integrity of a yacht's hull, to insulative structures or decorative graphics, **AFI** offers products that can exhibit rigidity or flexibility as needed— with strength.

A significant advantage to using an **AFI** thermoplastic adhesive film is the ability to pre-apply the adhesive to a surface then reactivate at a later date to bond to a mating surface. This aspect of our products is particularly beneficial for assembling composite structures or multilaminate layers.

Some examples would be: *Fabric* (polyester, polyester blends, cotton, rayon, Lycra, fiberglass, and some nylons); *Plastics* (ABS, polycarbonate, polyethylene, polypropylene, PVC, polyurethane); *Organics* (wood, leather, paper); and *Metals* (aluminum, copper, steel)

The end use requirement will dictate the type and thickness of adhesive to be used.

Composites and Laminates are found in high-performance products that need to be light in weight, but strong enough to be durable and long lasting.



## **Q: Why Choose An AFI Product? A: Flexibility.**

The flexible nature of our products allows your composite to be thermally formed either during the initial bonding or after the skin and core have already been bonded together. This means that a flat panel that has already been bonded can be thermally formed without losing dimensional stability. Some examples would be: skis, snowboards, surfboards, skateboards, bodyboards.

**AFI offers a wide range of melt points to meet your needs!**



*Adhesive Films, Inc. provides superior heat activated and pressure sensitive adhesives for thousands of uses, in a wide variety of industries.*

*Adhesive Films is a solvent free manufacturer preserving the environment we have, while providing products for the most extreme ones.*



*A typical composite structure consists of an exterior layer—referred to as the “skin”, adhering to one or both sides of a substrate—referred to as the “core”.*

*Selection of the skin or core material depends on the economic and performance requirements.*

