



SPORTS INDUSTRY

The sports industry is one of the biggest consumers of FRP composites, based on carbon and glass reinforcements. Improvements in performance, through light weight and stiffness characteristics have led to a growing market. Golf shafts were one of the first to take advantage of the lightweight benefits of carbon fibre. Snow sports have created some of the best tooling in the industry, and biking continues to push the limits of weight reduction. This is why serious bicyclists ride all carbon fiber bikes, and use bicycle shoes that use carbon fiber.



Recreational sport is another market segment which is inclined towards improving performance. Tennis rackets, softball bats, hockey sticks, and archery arrows and bows are all products commonly manufactured with carbon fiber reinforced composites.

Lighter weight equipment without compromising strength, is a distinct advantage in sports. For example, with a lighter weight tennis racket, one can get much faster racket speed, and ultimately, hit the ball harder and faster. Athletes continue to push for an advantage in equipment.

Helmets are another segment for Carbon composites. Light weight and high strength being critical criteria, a wide scope arises in having a alternative material.

HCS Products for Sports & Leisure Market include :

- Plain and Twill woven fabrics at 200 GSM & 245 GSM using 3K carbon fiber
- Plain and Twill woven fabrics at 420 GSM using 12K carbon fiber
- HinPreg® line of prepregs based on above fabric reinforcements



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