



Nanotube Superfiber Materials: Chapter 11. Carbon Nanofiber Multifunctional Mat (Micro and Nano Technologies)

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Carbon nanofibers are useful additives for improving the performance of polymer matrix composites, but the performance has sometimes been hindered by limits encountered in composite processing. Historically, incorporating nanofibers and other nanoparticles into structural composites has required lengthy predispersion steps using specialty dispersion techniques. Also, filtration of the nanoparticles by larger reinforcements is a problem in resin transfer molding processes. A way to overcome the problems with nanoparticles is through the use of carbon nanofiber sheets. The sheet material eliminates predispersion and reagglomeration and allows nanoparticle insertion into prepeg materials in the same manner as with traditional reinforcement materials. Composites fabricated with carbon nanofiber sheets demonstrate multifunctional property enhancements without altering traditional composite manufacturing processes. This chapter discusses development of carbon nanofiber continuous sheet goods and their applications.

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