



Chemistry and Technology of Cyanate Ester Resins

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After epoxy resins and polyimides, cyanate esters arguably form the most well-developed group of high-temperature, thermosetting polymers. They possess a number of desirable performance characteristics which make them of increasing technological importance, where their somewhat higher costs are acceptable. The principal end uses for cyanate esters are as matrix resins for printed wiring board laminates and structural composites. For the electronics markets, the low dielectric loss characteristics, dimensional stability at molten solder temperatures and excellent adhesion to conductor metals at temperatures up to 250°C, are desirable. In their use in aerospace composites, unmodified cyanate esters offer twice the fracture toughness of multifunctional epoxies, while achieving a service temperature intermediate between epoxy and bis-maleimide capabilities. Applications in radome construction and aircraft with reduced radar signatures utilize the unusually low capacitance properties of cyanate esters and associated low dissipation factors. While a number of commercial cyanate ester monomers and prepolymers are now available, to date there has been no comprehensive review of the chemistry and recent technological applications of this versatile family of resins. The aims of the present text are to present these in a compact, readable form. The work is primarily aimed at materials scientists and polymer technologists involved in research and development in the chemical, electronics, aerospace and adhesives industries. It is hoped that advanced undergraduates and postgraduates in polymer chemistry and technology, and materials science/technology will find it a useful introduction and source of reference in the course of their studies.

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Paulette Wang:

Spent a free time and energy to be fun activity to complete! A lot of people spent their down time with their family, or their own friends. Usually they accomplishing activity like watching television, gonna beach, or picnic in the park. They actually doing same task every week. Do you feel it? Do you want to something different to fill your current free time/ holiday? Could possibly be reading a book may be option to fill your free time/ holiday. The first thing you ask may be what kinds of reserve that you should read. If you want to test look for book, may be the publication untitled Chemistry and Technology of Cyanate Ester Resins can be fine book to read. May be it might be best activity to you.

Jodie Jennings:

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