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## J. Wiley in association with SITA Technology Ltd. - Synthesis of carbon



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### Synthesis of carbon

Under intense illumination the solvent-free resin was transformed within a fraction of a second into a hard and tough material, at ambient temperature.

### Synthesis of carbon

Hexanedioldiacrylate HDDA from UCB Chemicals was selected as reactive diluent at a weight concentration of 20% to reduce the formulation viscosity. They are therefore well suited for coatings applications to improve the weathering resistance of organic materials wood, plastics, fabrics, paper used in outdoor applications, if a black appearance is accepted. A redox initiator consisting of benzoyl peroxide and a tertiary amine was used to achieve a deep through-cure of thick samples, a process which was markedly accelerated in presence of acetylene black.

### Synthesis of carbon

All of these composite polymers have been obtained by a thermal processing.

### Synthesis of carbon

J Indian Chem Soc 1961;38:481.

### Synthesis of carbon

MACROMOLECULAR NANOTECHNOLOGY Time second 1972 A. For the dual-curable resin, a redox initiator was added to the formulation: benzoyl peroxide from Aldrich, in combination with dimethyl-p-toluidine from Aldrich, at a weight concentration of 1% each.

### Synthesis of carbon

**Exfoliation of graphite** In a previous study on the synthesis of clay nanocomposite materials by light-induced crosslinking polymerization, we have shown that a simple way to ensure that exfoliation of the silicate platelets has taken place upon ultrasound treatment of the liquid resin and that a true nanocomposite has been formed upon UV-curing is by monitoring the sedimentation of the mineral particles.

### **Synthesis of carbon**

A radiometer IL-390 from International Light was employed to evaluate the UV-dose in the 280—400 nm wavelength range received by the irradiated sample.

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