OPEN ACCESS Freely available online

Research & Reviews in Polymer

Vol 11, Iss 3

Effect of Blend Ratio on Cotton-Modal Fibre Blended Ring- Spun Yarn Quality with Varying Modal Fibre Percentage

Address for Correspondence: Subrata Kumar Saha, Assistant Professor, Department of Textile Engineering, Ahsanullah University of Science and Technology, Dhaka 1208, Bangladesh, Tel: +8801678112194, E-mail: subratatex@ gmail.com

Keywords ; Cotton–modal blend ratio • Neps • Um% • CVm% • Imperfections.

ABSTRACT

The Periodic Table crystallized in 1869 via Dmitri Mendeleev from the experimental and theoretical discoveries of new elements and the recognition of simple underlying trends during the 19th century. Arrhenius subsequently suggested a local ordering and self-assembly mechanism of positive and negative ions illustrated by the presence of hydrogen, carbonate, sulphate, hydroxide and ammonium compounds. Following the discovery of the inert gases by Ramsey the table was extended to include an extra column though the position of hydrogen remained and still remains a source of debate within chemists. Seaborg not only extended the table by discovering numerous transuranic elements and several isotopes but also developed the concept of the Actinides, similar to the set of Lanthanides, above them within the table. The issue of how to construct a sequential sequence of atomic numbers throughout the table, having been observed initially in theory by van den Broek and established experimentally by Moseley, remains to this day. Janet addressed the issue with his Left Step Periodic Table but the properties, particularly of hydrogen and helium, known at the time excluded any acceptance in general. Mass number though essential in quantitative calculations remains an enigma/anomaly as to its role in any underlying fundamental mechanism; despite the introduction of the concept of isotopes and a prediction of a particle – the neutron – by Soddy and its subsequent discovery by Chadwick in 1932. Mendeleev in the original construction of the table had to superimpose the significance of atomic number over and above that of mass number..

Importance of Chromatography: The importance of Chromatography is increasing rapidly in pharmaceutical analysis. The precise differentiation, selective identification and quantitative determination of structurally closely related compounds.High.

Multiple reports have been provided of conjugated polymers with spirocyclic ring systems. The use of a tetrahedral core in combination with a planer conjugated backbone was used to monitor thin film microstructure and increase system efficiencies in many cases. In particular, spirocyclic fluorine and sila-fluorine based conjugated polymers have demonstrated increased stability and decreased emission relative to their comparable non-spirocycle. Spricocycles are widely used as electron-acceptors in organic solar cells. Similarly, spirocyclic small molecules are the most common type of hole transport materials in hybrid solar cells. Interestingly, small molecule spirocyclic hole conveying materials were also used to produce high-efficiency solar cells even at low concentrations. Nevertheless, so far, the use of spirocycles in conjugated polymers has been primarily to regulate their solid state structure, and their ability in terms of the polymer backbone's electronic manipulation has largely been overlooked. In contrast, spiro conjugation has been used several times in small molecules to monitor the molecular frontier orbitals and their respective interactions. Here we present a series of spirocyclic conjugated polymers, where you can use the orthogonal ring method to control the polymer's electronic structure. Therefore we envisage a method by which both electronic and morphological properties can be simultaneously enhanced.

This work is partly presented at InternationalConferenceon PolymerWaste- Biopolymers& Bioplastics

This work is partly presented at InternationalConferenceon PolymerWaste- Biopolymers& Bioplastics

This work is partly presented at InternationalConferenceon PolymerWaste- Biopolymers& Bioplastics