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Fire retardant materials. It provides the reader with a comprehensive account of the advances that have occurred in fire science in relation to materials. The manufacture of fire retardant materials is an active area of research, the understanding of which can improve safety, as well as the

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marketability of a product.

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An example of a fire-resistant material is one which is used in bunker gear worn by firefighters to protect them from the flames of a burning building. In the United Kingdom, after two significant construction fires which resulted in a

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classification in the UL 94 test. Organically treated layered silicates (clays), carbon nano-tubes/nano-fibres, or other submicron particles at low loading (1-10wt%) are used for polymer nanocomposites.

Advances in Halogen-Free Flame Retardants

The field of flame retardancy of materials is facing lot of

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challenges last few years in terms of eco-friendliness, sustainability, etc., as the quantity of the chemicals used is high, toxic, expensive, and it has detrimental effect (strength and hand value degradation) on the material surface as the add-on% is much higher.

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Fire retardant polymeric materials are used in a broad range of applications in fields such as aviation, automotive, computer, construction, electronics, and telecommunications. It is essential to have a better understanding of the scientific technology used in the design and manufacture of fire-resistant materials and their end products.

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**Novel Fire Retardant
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Structurally sound building materials, like steel, that don't have great fire-resistance ratings, can be protected from fire with flame retardant seals using foam, chemical or cementitious-based products [source: Danko].

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