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## Developments in Polymer Characterisation 4

By -

Springer. Paperback. Condition: New. 268 pages. Dimensions: 8.5in. x 5.5in. x 0.6in. This volume includes reviews on tackling polymer characterisation problems and on developing specific characterisation techniques. The first two chapters and the last chapter describe progress in providing characterisation information for polymers containing long-chain branching, for polymer blends, and for polymers having preferred orientation. The remaining chapters review progress in individual techniques, showing with examples the characterisation results which may be obtained. It is recognised that the degree of chain branching which can evolve in some polymerisation processes can have a marked effect on the flow properties of a polymer, and therefore on polymer processing behaviour. In the first chapter the characterisation of long-chain branching from measurements of the molecular size and molar mass of a polymer in dilute solution is outlined. It is indicated that a complete characterisation of branching requires the combined use of several techniques, emphasising in particular recent developments involving gel permeation chromatography. Thermal analysis and infrared spectroscopy are widely used techniques in polymer characterisation. Both techniques can provide, very quickly, significant results with readily available instrumentation. This is illustrated by the review of the characterisation of polymer blends by thermal analysis in Chapter 2....



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