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Graphene, as an excellent nanofiller, can effectively improve the properties of rubber in many aspects. Therefore, the graphene/rubber composites are widely studied by researchers from all over the world, to improve the performance and expand the application of rubber.

Rubber Nanocomposites: Preparation, Properties and Applications focuses on the preparation, characterization and properties of natural and synthetic rubber nanocomposites. The book carefully debates the preparation of unmodified and modified nanofillers, various manufacturing techniques of rubber nanocomposites, structure, morphology and properties of nanocomposites. The text reviews the ...

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Rubber Nanocomposites : Preparation, Properties, and ...

Rubber Nanocomposites: Preparation, Properties and Applications is an essential and valuable reference for researchers in the fields of Chemistry, Material Sciences and Polymer Chemistry. Engineers and rubber technologists from polymer, automobile, chemicals, and tire industry would also find this handbook useful.

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The preparation techniques include sol gel process, in-situ polymerisation, solution mixing process, melt mixing process and in-situ intercalative polymerisation. The properties of nanocomposites...

(PDF) Polymer nanocomposites: Preparation, properties and ...

Some silicate/rubber nanocomposites with excellent properties and unique phase structure have been prepared by different methods, such as polyurethane (PU), acrylonitrile-butadiene rubber (NBR), ethylene-propylene-diene monomer (EPDM), natural rubber (NR), butadiene rubber (BR) and styrene-butadiene rubber (SBR). In general, the methods for the preparation of rubber-clay nanocomposites include in situ polymerization, solution and melt intercalation, wherein organic ...

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PREPARATION AND PROPERTIES OF STYRENE-BUTADIENE RUBBER ...

7.1 Introduction. 7.2 Clays and Their Organophilic Modification. 7.3 Preparation of Rubber/Clay Nanocomposites. 7.4 Properties of Rubber/Clay Nanocomposites. 7.5 Applications. 7.6 Outlook. Acknowledgments. References. 8 Cellulosic Fibril Rubber Nanocomposites (Maya Jacob John and Sabu Thomas). 8.1 Introduction. 8.2 Cellulose.

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