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13/14 15:

Page 5/30

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book carefully debates
the preparation of
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modified nanofillers,
various manufacturing
techniques of rubber
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7 Rubber/Clay Nanocomposites: Preparation, Properties and Applications
169 K.G. Gatos and J.

Karger-Kocsis 7.1

Introduction 169 7.2

Clays and Their

Organophilic

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Modification 170 7.3
Preparation
of Rubber/Clay
Nanocomposites 171
7.3.1 Solution
Intercalation 173 7.3.2
Latex Route 173 7.3.3
Melt Compounding 174
7.4 Properties
of Rubber/Clay
Nanocomposites ...

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: preparation,
Page 15/30

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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...

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nanocomposites depend greatly on the structure of the polymer matrices, the nature of nanofillers, and the method by which they are prepared. It has been established that uniform dispersion of CBNFs in rubber matrices is a general prerequisite for achieving desired mechanical, rheological, and physical

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A novel natural
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nanocomposite is
developed by combining
self-assembly and latex-
compounding
techniques. The results
show that the SiO₂
nanoparticles are

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homogenously
distributed throughout
NR matrix as nano-
clusters with an average
size ranged from 60 to
150 nm when the SiO₂
loading is less than 6.5
wt%.

*Self-assembled natural
rubber/silica*

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Abstract. Graphene oxide (GO)/nitrile rubber (NBR) nanocomposites with various contents of GO were prepared by a solution-mixing method, in this study. The GO sheets were exfoliated from natural fake graphite by an improved Hummers method and could be further dispersed

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homogeneously in NBR matrix. The thickness and size of the GO sheets were observed by atomic force microscopy and transmission electron microscopy.

Preparation and tribological properties of graphene oxide ...

Also, the uncured rubber macromolecules

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would be disentangled and the filler-rubber network constructed by filler-filler interaction and filler-rubber interaction would be broken down. The amplitude of the Payne effect was calculated using the equation, $\Delta G = G_0 - G$, where G_0 is the maximum modulus plateau value close to 0.01 strain%

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and G ?? is the
minimum ...

*Natural rubber
nanocomposites with
MWCNT@POSS hybrid*

...

Nanocomposite
materials were obtained
from a colloidal
suspension of chitin
whiskers as the
reinforcing phase and
latex of both

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unvulcanized and
prevulcanized natural
rubber as the matrix.
The chitin whiskers,
prepared by acid
hydrolysis of chitin
from crab shell,
consisted of slender
parallelepiped rods with
an aspect ratio close to
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