



PAPER

Atomistic approach for predicting mechanical properties and creep behavior of graphene reinforced natural rubber composites

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E-mail: sharmas09nitj.ac.in**Keywords:** composites, graphene, mechanical properties, molecular dynamics, rubber**Abstract**

Graphene has proven to be one of the finest nanomaterials for rubber. In the present study the effect of volume fraction and functionalization of graphene sheets on the mechanical properties and creep behavior of natural rubber (NR) composites has been predicted using the molecular dynamics approach. The properties of NR nanocomposite with the graphene sheet volume fractions of 2.5%, 4.72%, and 11.35% have been compared with the properties of pristine NR. It was observed that the values of Young's modulus, bulk modulus, and shear modulus were increased up to 104%, 68.40%, and 17.5% respectively for the NR nanocomposite with the reinforcement of 11.35% of graphene compared to pristine NR. The ultimate tensile strength was also increased up to 46% with a higher volume fraction of the graphene sheet. The carboxyl and ester functional groups were used for the functionalization of the graphene sheet. Among the two groups, it was observed that the carboxyl group functionalized graphene sheet provided a better result than the ester group functionalized graphene sheet reinforced NR nanocomposite. The results showed that the introduction of graphene sheets improved the creep resistance of NR nanocomposites significantly. The pristine NR reached the failure stage in just 600 ps for the stress level of 140 MPa, whereas the NR nanocomposite with an 11.35% volume fraction sustained a higher stress level of 160 MPa and has not shown any sign of failure, even after the simulation time of 1000 ps.

1. Introduction

Composite material is specified as a material formed by combining two or more different materials with distinct properties that do not dissolve into one another, having unique characteristics that are distinct from the individual elements. Composites, where the inclusions are nanofillers, are called nanocomposites. The ultimate task of composite creation is to achieve appropriate reinforcement alignment and effective interfacial adhesion by mixing the matrix and the reinforcement materials [1]. In recent years, it has been discovered that incorporating tiny amounts of these nanofillers into polymers can increase mechanical, thermal, tribological, and other properties without compromising their functional characteristics [2]. Nanomaterials such as carbon black, carbon nanotube, etc have piqued the interest of rubber scientists owing to their small scale and wide surface area, improving the essential mechanical characteristics of rubber materials even at low filler concentrations [3]. From its very discovery, graphene has sparked intense interest in the realms of rubber composites due to its unusual potential for enhancing the overall functionality of rubber [4, 5]. Graphene (GE) is one atom thick sheet of sp^2 bonded atoms of carbon closely packed in a honeycomb structure [6]. This distinct arrangement of graphene embeds it with several exceptional features, including extremely high Young's modulus and tensile strength, high thermal conductivity, rapid electron mobility, and huge surface area [7, 8].

Natural rubber (NR) is a remarkable material with commercial potential because of its great characteristics such as high mechanical strength, good flexibility, and tear resistance. *Hevea brasiliensis* has been the major economic source of NR due to its availability in the tree and the easiness of harvesting [9]. It is cis-1, 4-polyisoprene, as shown in figure 1, formed by polymerization of isoprene (2-methyl-1, 3-butadiene) used in a

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