

**PREPARATION, CHARACTERIZATION AND PROPERTIES  
OF ETHYLENE VINYL ACETATE NANOCOMPOSITES  
BASED ON CARBON NANOFILLERS**

*Jinu Jacob George*

# **Preparation, Characterization and Properties of Ethylene Vinyl Acetate Nanocomposites Based on Carbon Nanofillers**

*Thesis submitted to  
Indian Institute of Technology, Kharagpur  
for the award of the degree*

*of*

**Doctor of Philosophy**

*by*

**Jinu Jacob George**

*under the guidance of*

**Professor Anil K. Bhowmick**



**RUBBER TECHNOLOGY CENTRE  
INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR  
MARCH 2009**

*Dedicated to My Parents*

## **DECLARATION**

I certify that

- a. The work contained in this thesis is original and has been done by me under the guidance of my supervisor.
- b. The work has not been submitted to any other Institute for any degree or diploma.
- c. I have followed the guidelines provided by the Institute in preparing the thesis.
- d. I have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- e. Whenever I have used materials (data, theoretical analysis, figures, and text) from other sources, I have given due credit to them by citing them in the text of the thesis and giving their details in the references. Further, I have taken permission from the copyright owners of the sources, whenever necessary.

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### **CERTIFICATE**

This is to certify that the thesis entitled **Preparation, Characterization and Properties of Ethylene Vinyl Acetate Nanocomposites Based on Carbon Nanofillers** submitted by **Jinu Jacob George**, to Indian Institute of Technology, Kharagpur, is a record of bona fide research work under my supervision and is worthy of consideration for the award of the degree of Doctor of Philosophy of the Institute. Seven research papers from the thesis have been published/communicated for publication in the international journals.

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Anil K. Bhowmick

Date:

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