

**ASSESSMENT OF MORPHOLOGY DEVELOPMENT AND
STRUCTURE-PROPERTY CORRELATIONS IN
POLYPROPYLENE/CLAY NANOCOMPOSITES**

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**CENTRE FOR POLYMER SCIENCE AND ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY DELHI
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STRUCTURE-PROPERTY CORRELATIONS IN
POLYPROPYLENE/CLAY NANOCOMPOSITES**

by

SAIKAT BANERJEE

Centre for Polymer Science and Engineering

Submitted

in fulfillment of the requirements of the degree of Doctor of Philosophy

to the



INDIAN INSTITUTE OF TECHNOLOGY DELHI

JUNE 2011

*Dedicated To My
Grand Parents,
Parents & Wife*

CERTIFICATE

This is to certify that the thesis entitled, “Assessment of Morphology Development and Structure-Property Correlation in Polypropylene/Clay Nanocomposites” submitted by Mr. Saikat Banerjee to the Indian Institute of Technology Delhi, for the fulfillment of award of the degree, Doctor of Philosophy, is a record of bonafide research work carried out by him under our supervision and guidance. This thesis has been prepared in conformity with the rules and regulations of the Indian Institute of Technology Delhi, New Delhi.

The thesis, in our opinion, is worthy of consideration for award of the degree of Doctor of Philosophy in accordance with the regulations of the Institute. To the best of our knowledge, the results embodied in the thesis have not been submitted to any other University or Institute for the award of any other Degree or Diploma.

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