

Accepted Manuscript

Polymer-free graphene transfer on moldable cellulose acetate based paper by hot press technique

Sachin M. Shinde, Golap Kalita, Subash Sharma, Zurita Zulkiffi, Remi Papon, Masaki Tanemura

PII: S0257-8972(15)00375-8
DOI: doi: [10.1016/j.surfcoat.2015.04.040](https://doi.org/10.1016/j.surfcoat.2015.04.040)
Reference: SCT 20244

To appear in: *Surface & Coatings Technology*

Received date: 22 January 2015
Accepted date: 22 April 2015



Please cite this article as: Sachin M. Shinde, Golap Kalita, Subash Sharma, Zurita Zulkiffi, Remi Papon, Masaki Tanemura, Polymer-free graphene transfer on moldable cellulose acetate based paper by hot press technique, *Surface & Coatings Technology* (2015), doi: [10.1016/j.surfcoat.2015.04.040](https://doi.org/10.1016/j.surfcoat.2015.04.040)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Polymer-free graphene transfer on moldable cellulose acetate based paper by hot press technique

Sachin M. Shinde¹, Golap Kalita^{*1,2}, Subash Sharma¹, Zurita Zulkifli¹, Remi Papon¹,
Masaki Tanemura¹

¹Department of Frontier Materials, Nagoya Institute of Technology, Gokiso-cho,
Showa-ku, Nagoya 466-8555, Japan

²Center for Fostering Young and Innovative Researchers, Nagoya Institute of
Technology, Gokiso-cho, Showa-ku, Nagoya, 466-8555, Japan

Corresponding authors: *E-mail: kalita.golap@nitech.ac.jp, Phone/Fax:
+81-52-735-5216

Abstract:

Chemical vapor deposited large-area graphene transfer process to different flexible substrates is one of the most critical aspect to explore wide range of reliable applications. In this prospect, transfer of graphene on emerging cellulose based flexible paper and other lightweight substrates for various applications is of great importance. Here, we developed a simple and effective approach of polymer-free graphene transfer process onto a moldable flexible substrate. The synthesized graphene on Cu foil was hot pressed

Download English Version:

<https://daneshyari.com/en/article/8026462>

Download Persian Version:

<https://daneshyari.com/article/8026462>

[Daneshyari.com](https://daneshyari.com)