## **Accepted Manuscript**

Title: Valence band structure of PDMS surface and a blend with MWCNTs: a UPS and MIES study of an insulating polymer

Author: Natalya M. Schmerl Dmitriy A. Khodakov Andrew J. Stapleton Amanda V. Ellis Gunther G. Andersson

PII: S0169-4332(15)01476-2

DOI: http://dx.doi.org/doi:10.1016/j.apsusc.2015.06.129

Reference: APSUSC 30649

To appear in: APSUSC

Received date: 14-3-2015 Revised date: 11-6-2015 Accepted date: 22-6-2015

Please cite this article as: N.M. Schmerl, D.A. Khodakov, A.J. Stapleton, A.V. Ellis, G.G. Andersson, Valence band structure of PDMS surface and a blend with MWCNTs: a UPS and MIES study of an insulating polymer, *Applied Surface Science* (2015), http://dx.doi.org/10.1016/j.apsusc.2015.06.129

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.



## ACCEPTED MANUSCRIPT

### Highlights

- Valence electron spectroscopy was performed on an insulating polymer using different charge compensation methods.
- MWCNT were embedded in PDMS and found to be the most effective method for reducing the charging of the insulating polymer.
- The valence band spectrum of PDMS was obtained via MIES and UPS.
- Ion scattering spectroscopy was used to determine the concentration depth profile of the PDMS in the sample.

#### Download English Version:

# https://daneshyari.com/en/article/5356615

Download Persian Version:

https://daneshyari.com/article/5356615

Daneshyari.com