

ABSTARK

PENGUJIAN PENYERAPAN SINAR ULTRAVIOLET (UV) PADA BEBERAPA BAHAN PLASTIK LOKAL DI BANDAR LAMPUNG

Oleh

NURUL AINI

Telah dilakukan penelitian tentang penyerapan sinar ultraviolet (UV) pada beberapa bahan plastik lokal di Bandar Lampung. Penelitian ini bertujuan memperoleh data indeks UV di suatu wilayah dan untuk mengetahui penyerapan sinar ultraviolet dari beberapa bahan plastik beserta atenuasinya. Alat ukur yang digunakan berupa alat *UV Light Meter* model UV340B dan beberapa bahan plastik dengan ketebalan yang digunakan adalah 80 μm dengan kandungan *stabilizer* 6%, 170 μm dengan kandungan *stabilizer* 14% dan kaca film. Hasil penelitian menunjukkan bahwa berdasarkan sampel pengambilan data di Bandar Lampung diperoleh perbedaan indeks UV dan hasil penyerapan sinar UV pada plastik lokal UV dan kaca film diperoleh semakin banyak kandungan *stabilizer* pada plastik maka semakin baik dalam melindungi plastik dari paparan sinar UV.

Kata kunci: plastik lokal UV, sinar UV, intensitas matahari

ABSTRACT

TESTING THE ABSORPTION OF ULTRAVIOLET (UV) RAY ON SOME LOCAL PLASTIC MATERIALS IN BANDAR LAMPUNG

By

NURUL AINI

Research has been carried out on the absorption of ultraviolet (UV) light on several local plastic materials in Bandar Lampung. This research aims to obtain UV index data in an area and to determine the absorption of ultraviolet light from several plastic materials and their attenuation. The measuring instrument used is a UV Light Meter model UV340B and several plastic materials with a thickness of 80 μm with a stabilizer content of 6%, 170 μm with a stabilizer content of 14% and window film. The results of the research show that based on sample data taken in Bandar Lampung, differences in the UV index and the results of UV light absorption on local UV plastic and window film were obtained. The more stabilizer content in the plastic, the better it is at protecting the plastic from exposure to UV light.

Key words: local UV plastic, UV light, solar intensity