

## ABSTRAK

Salah satu cara untuk meningkatkan kualitas perkerasan jalan adalah dengan menggunakan aspal modifikasi polimer. Karet alam merupakan polimer jenis elastomer dengan harga yang relatif murah. Sebagai produsen karet alam, Indonesia perlu mencari alternatif pemanfaatan karet alam tersebut, termasuk memanfaatkannya sebagai bahan modifikasi aspal. Penelitian ini dilakukan dengan membuat 3 jenis aspal yang dimodifikasi Lateks Alam, yang masing-masing dengan variasi lateks sebesar 1 %, 2 %, dan 3 % dengan kadar aspal optimum (KAO), Dari hasil pengujian karakteristik sifat marshall pada campuran jenis *Asphalt Concrete-Wearing Course* (AC-WC) yang menggunakan getah karet sebagai tambahan campuran dengan persen variasi 5% didapat nilai Stability 2108,82 kg, Bulk Density 1,83 gr/cm<sup>3</sup>, Flow 3mm Void Filled 97,63%, Marshal Quotient 641,82mm, variasi 5,5% didapat nilai Stability 1286,91 kg, Bulk Density 1,78gr/cm<sup>3</sup>, Flow 3mm, Void Filled 97,42%, Marshal Quotient 341,26mm, dan variasi 6% didapat nilai Stability 1199,82 kg, Bulk Density 1,8gr/cm<sup>3</sup>, Flow 3mm, Void Filled 97,45%, Marshal Quotient 397,79mm. Sedangkan untuk campuran normal didapat nilai Stability 877 kg, Bulk Density 2,286gr/cc, Flow 3,544mm, Voids Filled 76, 301%.

**Kata Kunci:** *Asphalt Concrete-Wearing Course* (AC-WC), Perkerasan Jalan, Getah Karet

## ABSTRACT

One way to improve the quality of road pavement is to use polymer modified asphalt. Natural rubber is an elastomeric type polymer with a relatively cheap price. As a natural rubber producer, Indonesia needs to find alternative uses for natural rubber, including using it as an asphalt modification material. This research was conducted by making 3 types of asphalt modified by Natural Latex, each with a latex variation of 1%, 2%, and 3% with optimum asphalt content (KAO). Wearing Course (AC-WC) which uses rubber latex as an additional mixture with 5% variation percent, obtained Stability value of 2108.82 kg, Bulk Density 1,83  $\text{gr}/\text{cm}^3$ , Flow 3mm Void Filled 97.63%, Marshal Quotient 641.82mm, variation 5.5% Stability value 1286.91 kg, Bulk Density 1,78 $\text{gr}/\text{cm}^3$ , Flow 3mm, Void Filled 97.42%, Marshal Quotient 341.26mm, and variation 6% Stability values obtained are 1199.82 kg, Bulk Density, Flow 3mm, Void Filled 97.45%, Marshal Quotient 397.79mm. As for the normal mixture, the Stability value was 877 kg, Bulk Density was 2.286 $\text{gr}/\text{cc}$ , Flow was 3.544mm, Voids Filled was 76, 301%.

**Keywords:** Asphalt Concrete-Wearing Course (AC-WC), Road Pavement, Rubber sap