

ALTERNATIVE BIO-BASED PLASTICIZERS FOR RUBBER INDUSTRY

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Plasticisers are important components of rubber compounds, facilitating their processing and influencing product properties. So far used plasticisers are mostly oils of petroleum origin, i.e. from a non-renewable source. Within the decarbonisation strategy of today's world and for geopolitical reasons, it is desirable to decrease the dependence of rubber industry on the fossil raw materials. Thus, the alternative bio-based plasticisers have been introduced which, however, have different chemical composition than the petroleum-based ones. We present a basic benchmark of the application of vegetable oils in rubber compounds for production of tyre treads.