

Study and Characterization of Composites Materials Based on Thermoplastic matrix and natural fiber

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ABSTRACT

Composites reinforced with natural fibers have attracted the attention of several researchers, because of their low cost, low density and availability, ease of implementation and high specific properties, etc. The main objective of the present work was to study the effect of benzoylation and PVC-g-MA on the mechanical, thermal and properties of PVC/OHF composites. In this context, we are interested for developing two types of composites, modified and unmodified, with different rate of olive husk flour namely 10, 20 and 30%. The treated and untreated OHF were characterized by Fourier Transform Infrared spectral analysis. The Composites obtained by extrusion were characterized by mechanical tests.

Keywords: olive husk flower, composites, PVC-g-MA, benzoylation