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BIOCOMPOSITE AND INNOVATIVE GREEN CHEMISTRY

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There is a variety of not exploited vegetable fibers in important quantities: palm tree, alfa, rafia, kenaf, etc. Actually, the use of these fibers is limited to the domestic use and paper-maker industry. The FIVBIOP project is an eco-design project which aims to develop a biopolymer composed of an organic thermoplastic matrix and alfa vegetable fibers. Our work is focused on the optimisation of the manufacturing process and the fibers treatment. Our objective is to reduce chemical treatment and use more physical one in order to improve mechanical characteristics. This project allowed the production of a new material with high properties. It associates innovation and sustainability; less waste; biodegradable; less resources depletion; cost reduction; social employment; partnership from Europe and North Africa; a good aspect; new markets: packaging, home and offices decoration; a patented solution; environmentally friendly. We will detail the development of this material and different steps of the project.

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