Natural fibres play a vital role in developing high performing biocomposites, which will be a key material to solve the current ecological and environmental problems. Natural fibre reinforced composites may in future become materials to substitute polymer based composites, owing to their lightweight, cost effective application of renewable materials, attractive specific properties, simple processing technologies, eco-friendliness and ability to recycle after use. This monograph reveals the new domain of research on Agave Americana leaf fibres and their composites. This investigation focuses on the effect of fibre volume fraction, composite thickness and type of thermoset polymer matrix on properties of the fabricated composites. Agave Americana fibre reinforced composites have been manufactured by compression molding method. Fabricated composites were investigated for their physical, functional and mechanical properties. Meticulous discussion was carried out on optimization of extraction method of Agave Americana fibres as well as fabrication and characterization of their composites in this monograph.

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