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(54) Title: COMPOSITE MATERIAL FOR USE IN REDUCING CARBON EMISSION

(57) Abstract: The present disclosure provides a composite material for use in reducing carbon emission, the composite material comprising (i) at least 40wt% of heterogenous organic matter out of a total weight of the composite material, said heterogenous organic matter comprising at least cellulose (ii) a plurality of synthetic polymers and (iii) up to 15wt% inorganic matter; wherein said composite material comprises less than 5wt% polyethylene terephthalate PET out of the total weight of the composite material; and wherein said composite has a carbon footprint of below about -10KgCO₂ eq/Kg as determined according to ISO 14040: 2006. Also disclosed is an article of manufacture comprising the composite material, method of producing the article of manufacture.

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