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(57) Abstract :

The present disclosure relates generally to production of composites employing carpet waste. More specifically, the disclosure is directed to a method of fabrication of a polymer composite from waste polyester carpet and epoxy resin. The disclosure also provides a method of recycling polyester carpet and a polymer composite comprising an epoxy matrix and a polyester carpet. The polymer composite has improved tensile strength, tensile modulus, flexural modulus and flexural strength.

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