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Experimental Investigation of Strength Characteristics on Beams using Plastic

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Abstract: One of the major challenges of our present society for our protection of our environment. In recent years, there has been a dramatic increase in investigating ways in which mixed plastics can be recycled or reclaimed for reprocessing. There are usually two methodologies when dealing with recycling mixed plastics that consist of different polymers. One method is to grind up the mixed material and then to add in a small amount of this regrind back into the process of making new parts of products. The other method is to separate the mixed polymers, in order to reobtain the pure components. It serves natural resources and reduces the space required for the landfill disposal. This paper represents the experimental results of replacement of concrete by using plastic in order to increase the flexural strength of beam. The results of an extensive experimental program aimed at examining the strength of plastic reported in this paper.

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