

ECO-FRIENDLY BINDER IN FLEXIBLE PAVEMENT

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ABSTRACT

Plastic is everywhere in today's lifestyle. It is used for packaging, protecting, serving, and even disposing of all kinds of consumer goods. With the industrial revolution, mass production of goods started and plastic seemed to be a cheaper and effective raw material. Hence improper disposal of plastic leads to problems like Acquisition of land under waste plastic, human problems as breast cancer, reproductive problems in humans and animals, genital abnormalities and even a decline in human sperm count and quality.

The molten plastics waste exhibits good i.e. waste plastic and bitumen used suitably in preparation of flexible road construction as per by Ductility test IS 1208—1978. In binding property Use of plastic along with the bitumen in construction of roads not only increases its ductility and smoothness but also makes it economically sound and environment friendly. The ductility test gives the standard value of ductility of homogeneous mixture this paper the results of laboratory ductility tests of bitumen with increasing percentage of waste plastic have been discussed.

KEYWORDS: Binding, Ductility, Bitumen, Elongation, Flexible Pavement, Interlocking of Aggregate