

Use of Waste Plastic in Paving Blocks

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Abstract: *Plastics are a wide range of synthetic or semisynthetic organic compounds that are malleable and so can be molded into solid objects. Polystyrene is just another form of plastic. Polystyrene (PS) is a synthetic aromatic hydrocarbon polymer made from monomer known as styrene. Polystyrene can be solid or foamed. General-purpose polystyrene is clear, hard, and rather brittle. It is an inexpensive resin per unit weight. It is a rather poor barrier to oxygen and water vapour and has a relatively low melting point. Polystyrene is one of the most widely used plastics, the scale of its production being several million tonnes per year. Polystyrene can be naturally transparent, but can be coloured with colour ants. Expanded Polystyrene (EPS) is a lightweight cellular plastic material consisting of small hollow spherical balls. It is 98% air and 2% plastic. It is this closed cellular construction that gives EPS its remarkable characteristics. EPS is produced in a wide range of densities providing a varying range of physical properties.*

Keywords: LDPE (Low density polythene), paver blocks, optimum utility, waste management

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