



## Introducing a new windbreak machine for controlling of dust storms

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### Abstract

In order to control high level of PM concentrations especially for dust stabilization in Iran, many studies applied different methods, including biopolymer, chemical polymer, planting in saline and draught soil, but the results were not satisfactory. The results of compressive strength, MWD and aggregate stability showed that durability of three polymers was less than 7 months in nature. After 5 months, polymers had lost their adhesion properties and had decomposed and after rainfall the compressive strength and the aggregate stability moved down sharply. However, the effective strategies for stabilizing of dust need to be addressed. In this paper the author intends to introduce a new sustainable strategy using windbreak machine against dust storm and wind erosion.

**Keywords:** Windbreak, Dust storms, Polymer, Device