



Review

Comprehensive Review of Geotechnical Engineering Properties of Recycled Polyethylene Terephthalate Fibers and Strips for Soil Stabilization

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Abstract: The waste management of plastic has become a pressing environmental issue, with polyethylene terephthalate (PET) being one of the major contributors. To address this challenge, the utilization
of recycled PET fibers and strips in geotechnical engineering applications for soil stabilization has
gained considerable attention. This review aims to provide a comprehensive study of the geotechnical engineering properties of recycled-PET-reinforced soils. The review examines various factors
influencing the performance of PET-reinforced soils, including PET percent content, fiber length,
and aspect ratio. It evaluates the mechanical properties, like shear strength, compressibility, bearing
capacity, hydraulic behavior, and durability of recycled-PET-reinforced soils. The findings reveal PET
reinforcement enhances shear strength, reduces settlement, and increases the bearing capacity and
stability of the soil. However, it is observed that the incorporation of recycled PET fibers and strips
does not lead to a significant impact on the dry density of the soil. Finally, an environmental and
cost comparison analysis of recycled PET fibers and strips was conducted. This review serves as a
valuable resource for researchers, engineers, and practitioners involved in the field, offering insights
into the geotechnical properties of PET-reinforced soils and outlining future research directions to
maximize their effectiveness and sustainability.

Keywords: PET fibers; PET strips; polymer, geotechnical properties; soil stabilization; environmental impact; economic impact; sustainability

1. Introduction

Soil stabilization is a fundamental aspect of geotechnical engineering that involves improving the engineering properties of soils to enhance their load-bearing capacity, reduce settlement, and mitigate potential geotechnical hazards [1,2].

The strengthening mechanisms of soil are complex and multifaceted, involving various interactions between soil particles and reinforcements [3,4]. Particle rearrangement and interlocking, frictional resistance, cohesion and adhesion, and reinforcement through fibers or strips all contribute to soil strength [5]. These mechanisms are crucial for enhancing the mechanical properties of soil, such as shear strength, compressibility, and bearing capacity. The factors influencing soil strengthening mechanisms can be broadly categorized into soil-related properties and reinforcement-related properties. Soil-related properties include soil type and gradation, moisture content, density, and chemical and biological processes [6]. Reinforcement-related properties include fiber length, aspect ratio, material, and surface texture, as well as interface bonding between soil and reinforcement [7]. Understanding the interplay between these factors and mechanisms is essential for effective soil stabilization and reinforcement.

Traditionally, soil stabilization has relied on the use of conventional materials, such as cement, lime, and chemical additives, to modify soil characteristics [8,9]. However, with



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