

## عنوان مقاله:

The effect of different lengths of polyester fibers on the mechanical properties of concrete

محل انتشار:

سومین کنفرانس بین المللی معماری، عمران، شهرسازی، محیط زیست و افق های هنر اسلامی در بیانیه گام دوم انقلاب (سال: 1402)

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## خلاصه مقاله:

Today, the use of plastic products has increased, and for this reason, the disposal of this plastic waste has become a big problem and has caused many environmental problems. A large part of this plastic waste consists of plastic bottles, which are made of polyethylene terephthalate (PET). In this research, three different lengths of 1, 7, and 7 cm polyester fibers (PF) obtained from recycling plastic or PET bottles were used with a fixed percentage of 1% by weight of cement as an additive, with a fixed ratio of water to cement in concrete and with 7 The mixing plan of 17 different concrete samples was made. The compressive strength of concrete was investigated. The lengths of 1, 7, and 7 cm of polyester fibers have increased the compressive strength of concrete by .%%,  $\cdot$ .1%, and  $1\Delta\%$ , respectively

کلمات کلیدی: Polyester fibers, Polyethylene terephthalate (PET), Compressive Strength of concrete, environmental problems

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