

Some Properties of Concrete Using Waste Plastic Fiber with a Very Small Percentages

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This research includes the study of the effect of adding the chips resulting from cutting the plastic beverage bottles (which is used in Iraqi markets now) as fibres added to the concrete. These fibres were added with very small percentages of concrete volumes. These percentages were (0.1%) and (0.2%). Reference concrete mix was also made for comparative reasons.

Results proved that adding of plastic fibres with these percentages lead to improvements in compressive strength and flexural strength of concretes containing plastic fibres, but the improvement in flexural strength appeared more clearly. Results proved also an increasing in densities of fibre concrete samples according to these made of reference mix.