

Review of: "Analytical Study and Amelioration of Plastic Pavement Material Quality"

V. E. Yudin¹

¹ Institute of Macromolecular Compounds

Potential competing interests: No potential competing interests to declare.

The work may be of interest to professionals involved in the recycling of plastic waste. This topic has become very relevant in recent years due to the significant pollution of nature caused by waste from polyethylene terephthalate (PET) bottles and polypropylene (PP) plastic bags.

The authors of the article suggest mixing these plastics with sand and propose using their mechanical properties, such as compressive and flexural strength, as criteria for selecting the obtained samples. It is possible that some other characteristics will be required when planning the use of these materials as pavement, but so far they are not considered in the article except for porosity and moisture absorption.

As insignificant remarks, the following can be noted:

- 1) For some reason, the chemical formula for PET on page 3 is $(C_2H_4)_n$, not $(C_{10}H_8O_4)_n$, as it should be.
- 2) It is fair to specify the strength of the material in MPa, since this value refers to a characteristic of the material, and it is not informative to indicate only the load in N, since it is necessary to know the cross-sectional area of the material.
- 3) If the article is about road surfaces, then it is necessary to indicate what other characteristics need to be determined, for example, the coefficient of friction, in order to seriously discuss the use of plastic instead of traditional asphalt pavement.