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Res. Agr. Eng.

**Valášek P., Müller M.,
Proshlyakov A.:**

Effect of sedimentation

of polymeric particle composites

Res. Agr. Eng., 58 (2012): 92-98

In present days composite materials are the indispensable part of many branches. They make a foray into the branch of agricultural production, where they are getting to intensive development of systems utilized e.g. at soil processing. Composites can be defined as materials which synergically combine properties of matrix and filler. One of possibilities of polymeric particle composites preparation is the application of suitable filler together with some types of epoxy resins. This application extends the usable properties of resins. For the exact definition of these materials use it is necessary to map their behaviour. In the paper the problems are described, which concern the composite hardness changes as a consequence of the filler particle sedimentation in the course of the resin curing. The composite matrix was the two-component epoxy resin and the filler were chips of materials cutting process. The use of waste filler suggests itself the ecological possibility of

recycling, which should be preferred in consideration to the environment friendliness.

Keywords:

epoxy resin; hardness; X-ray analysis; waste

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