service representing a source of downtime. On the other hand, extrusion of a flat sheet followed by shaping of the sheet with rollers allows to obtain items with a regular and accurate structure even when using a material that cannot be shaped into regularly shaped items by other means, such as by profile extrusion.

The ease of production using profile extrusion is another reason why the cores of the drain boards are typically made from polyolefins because polyolefins can be easily and reproducibly formed into regular shapes by profile extrusion. Polyolefins often show in particular a high reproduction fidelity in profile extrusion and do not require special tools or an adaptation of the process. Thus, with polyolefins, it is possible to prepare regular cores of drain boards with a high accuracy.

Therefore, it is an object of the present invention to provide a biodegradable drain board. In particular, it is an object of the invention to provide a biodegradable drain board comprising a core that can be made by extrusion, more particularly by profile extrusion. Preferably, the drain boards should have a sufficient service lifetime.

Other and further objects, features and advantages of the present invention will become apparent more fully from the following description.

SUMMARY

The disclosure provides for a core of a drain board manufactured from a composition comprising

a. a polyester comprising one or more hydroxycarboxylic acids as monomers,
b. a copolyester comprising at least one diol component and at least one diacid component,
c. an inorganic filler,

wherein the composition comprises at least 5 wt.% of the inorganic filler, based on the total weight of the composition.

The disclosure further provides for a process for manufacturing the core of a drain board according to the invention, comprising the steps of

a. providing a composition comprising
    i. a polyester comprising one or more hydroxycarboxylic acids as monomers,
    ii. a copolyester comprising at least one diol component and at least one diacid component,
    iii. an inorganic filler,

    wherein the composition comprises at least 5 wt.% of the inorganic filler, based on the total weight of the composition,
b. mixing the composition using thermal and/or mechanical energy,
c. shaping of the core.

The disclosure also provides for a drain board comprising a core according to the disclosure surrounded by a filter material.

The disclosure also provides for the use of a drain board according to the disclosure for soil improvement, in particular as a horizontal or a vertical drain, as earthquake drain, or as a gas drain.

Surprisingly, it was found that the core of a drain board can be manufactured from a composition comprising a polyester comprising one or more hydroxycarboxylic acids as monomers, a copolyester obtained by condensation of at least one diol component and at least one diacid component, and an inorganic filler, wherein the composition comprises at least 5 wt.% of the inorganic filler, based on the total weight of the composition, with good reproduction fidelity by extrusion, in particular even when using profile extrusion. Further, it was found that the resulting drains are biodegradable. Moreover, the resulting drains have a sufficiently long service lifetime.

Preferred embodiments are described in the detailed description.