

Claims

1. Core of a drain board manufactured from a composition comprising
 - a. a polyester comprising one or more hydroxycarboxylic acids as monomers,
 - 5 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.
- 10 2. Core according to claim 1, wherein the core has a weight of 30 to 70 g/m, preferably 30 to 60 g/m, more preferably 30 to 55 g/m, even more preferably 30 to 50 g/m, most preferably 30 to 45 g/m.
3. Core according to claim 1 or 2, wherein the composition comprises 40 to 75 wt.%, preferably 45 to 70 wt.%, more preferably 50 to 65 wt.%, of the polyester,
15 based on the total weight of the composition, and/or wherein the composition comprises 15 to 45 wt.%, preferably 20 to 40 wt.%, more preferably 25 to 35 wt.%, of the copolyester, based on the total weight of the composition.
4. Core according to any one of the preceding claims, wherein the composition
20 comprises 5 to 40 wt.%, preferably 5 to 30 wt.%, more preferably 5 to 20 wt.%, of the inorganic filler, based on the total weight of the composition.
5. Core according to any one of the preceding claims, wherein the polyester is selected from the group consisting of poly(caprolactone), poly(lactic acid), poly(L-lactic acid), poly(3-hydroxybutyrate), poly(3-hydroxyvalerate), poly(3-hydroxyhexanoate), poly(3-hydroxybutyrate-co-3-hydroxyvalerate), poly(3-

hydroxybutyrate-co-3-hexanoate), and mixtures thereof, in particular from the group consisting of poly(caprolactone), poly(lactic acid), poly(L-lactic acid), and mixtures thereof.

6. Core according to any one of the preceding claims, wherein the copolyester
5 comprises at least one diol component and at least two diacid components.
7. Core according to any one of the preceding claims, wherein the copolyester is
selected from the group consisting of poly(butylene succinate), poly(butylene
sebacate), poly(butylene adipate-co-succinate), poly(butylene adipate-co-
sebacate), poly(butylene adipate-co-terephthalate), poly(butylene sebacate-co-
10 terephthalate), and mixtures thereof, in particular from the group consisting of
poly(butylene succinate), poly(butylene adipate-co-terephthalate), and mixtures
thereof.
8. Core according to any one of the preceding claims, wherein the inorganic filler is
selected from the group consisting of calcium carbonate, dolomite, talcum, kaolin,
15 mica, and mixtures thereof, in particular from the group consisting of calcium
carbonate, dolomite, talcum, and mixtures thereof.
9. Core according to any one of the preceding claims, wherein the inorganic filler
has an average particle size of 0.5 to 10 μm , preferably 1 to 5 μm , more
preferably 1 to 3 μm or wherein the inorganic filler has a particle size
20 distribution wherein 55 wt.% of the particles has a size of 10 μm or smaller,
preferably 5 μm or smaller, more preferably 3 μm or smaller, most preferably 2
 μm or smaller.
10. Core according to any one of the preceding claims, wherein the composition has a
melt flow index MFI, determined according to ISO 1133, in particular ISO 1133-
25 1:2001, 2.16 kg, 190°C, from 5 to 30 g/10 min, preferably from 10 to 25 g/10
min, more preferably from 15 to 20 g/10 min.

11. Process for manufacturing the core of a drain board according to any one of claims 1 to 10, 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.
12. Process according to claim 11, wherein the core is shaped by extrusion, in particular by profile extrusion, or by extrusion followed by a calendering step.
13. Process according to claim 11 or 12, wherein the core is shaped by profile extrusion and a calibration unit cooled to 10 to 30°C, preferably 10 to 25°C, more preferably 10 to 20°C is used.
14. Drain board comprising a core according to any one of claims 1 to 10 surrounded by a filter material.
15. Use of a drain board according to claim 14 for soil improvement, in particular as a horizontal or a vertical drain, as earthquake drain, or as a gas drain.