Claims

1. A pod (1) with an inner volume in which a beverage ingredient is stored and in which a beverage is produced when water is introduced inside, said pod (1) comprising a body (10) through which water is to be introduced and a closing lid (11) through which the beverage is to be dispensed, said closing lid being made of a multilayer material, said multilayer material comprising at least paper layer and a biodegradable plastic laminate sealing layer and sealed on said body (10) and defining therebetween said inner volume, the pod (1) being made of biodegradable materials, said body (10) having a three-dimensional shape and said closing lid (11) being flat, said closing lid (11) is made of a material having a value of puncture resistance comprised between 3N/15mm and 10N/15mm for an elongation between 1,5 mm and 3 mm, said body is made of a multilayer material comprising a paper layer and a plastic sealing layer, having a tensile value at break at least equal to 2%, and preferably comprised between 2% and 20%, **characterized in that** the plastic sealing layer comprises a barrier polymer sandwiched between two compostable polymer, the barrier polymer is polyvinylalcohol (PVOH), and the compostable polymer is selected from polylactic acid (PLA), polybutylene succinate (PBS), polhyhydroxyalkanoates (PHA), polybutylene adipate terephthalate (PBAT), starch, and a polymer blend formed of PLA, PBAT, PLA and PBS.

2. A pod (1) according to claim 1, wherein said multilayer material of said closing lid (11) comprises a biodegradable plastic layer, the paper layer and the biodegradable plastic laminate sealing layer.

3. A pod (1) according to any one of claims 1 or 2, wherein said body (10) is made of a stretchable material.

4. A pod (1) according to any one of claims 1 to 3, wherein the pod (1) is asymmetric with respect to a plane parallel to the closing lid (11).

5. A pod (1) according to any one of the claims 1 to 4, wherein each of the body (10) and the closing lid (11) have an external surface, the external surface of each the body (10) and the closing lid (11) being coated with a protective layer of a polymeric compostable material.

6. A pod (1) according to any one of the claims 1 to 5, wherein said pod (1) is tightly closed and is made of liquid-impermeable materials.

7. A pod (1) according to any one of the precedent claims, wherein the body (10) is formed starting from a flat blank, said flat blank is stretched and given the shape of the body (10).