In an embodiment, the body 10 is made of a multilayer material. For example, the body 10 is made of a paper layer and a plastic sealing layer. Preferably, the paper layer forms the outer surface of the body and the plastic sealing layer forms the inside surface.

The paper is formable, i.e. it can be given a three-dimensional shape. The paper can have a grammage for example between 80 and 150 gsm (gram per square meter).

The plastic laminate can comprise a barrier polymer sandwiched between two compostable polymers. The barrier polymer can be for example Polyvinyl alcohol (PVOH). The compostable polymer can be for example chosen among polylactic acid (PLA), Polybutylene succinate (PBS), Polyhydroxyalkanoates (PHA), polybutylene adipate terephthalate (PBAT) and starch. The compostable polymer can also be composed of a polymer blend formed of PLA, PBAT, PHA and PBS.

For example, the plastic laminate can be composed of a Polyvinyl alcohol (PVOH) sandwiched between two layers of polylactic acid (PLA).

The plastic laminate can have a thickness comprised between 20 and 100 µm and preferably between 35 and 50 µm. Formable paper substrate used inside the plastic laminate can have MD/CD (Machine direction and cross direction) stretching properties with a tensile value at break superior to 5%, along with isotropic or anisotropic paper characteristics.

The following table lists some possible compositions of the body having a multilayer material including a paper layer and a plastic sealing layer:

	Plastic sealing layer			
	Compostable polymer	**Barrier polymer**	**Compostable polymer**	**Thickness**
Paper layer 80 – 150	PLA	PVOH	PLA	20-100 µm
	PBS	PVOH	PBS	20-100 µm
	PHA	PVOH	PHA	20-100 µm

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), polyhydroxyalkanoates (PHA), polybutylene adipate terephthalate (PBAT), starch, and a polymer blend formed of PLA, PBAT, PHA 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).