According to the present disclosure, enhancing the hydrophilicity of polystyrene means to provide for a polystyrene material which is modified by particular additives as per the invention in order to obtain a lower static contact angle between the polymer surface and water, and also providing for a higher water absorbing capacity of the additivated polystyrene material compared to the genuine polystyrene material.

Another embodiment of the disclosure relates to the use of a composition Z, as described before, for manufacturing an absorbent article of solid non-foamed or foamed polystyrene, wherein the absorbed material is an aqueous liquid.

The composition Z is preferably a masterbatch MB or a Compound as defined before.

The absorbent article is preferably a film, a sheet or a container, e.g. a food tray, which is preferably in contact with water-containing food, e.g. meat, fish, vegetables or fruits. The absorbed material is preferably water, blood or juice.

A further ~~aspect~~ embodiment relates to a solid foamed or non-foamed polystyrene article comprising a composition Z as defined above, which article is in contact with water-containing food, e.g. meat, fish, vegetables or fruits, and which article is preferably a film, a sheet or a container, e.g. a food tray.

For the purposes of the disclosure, a hydrophilic solid non-foamed or foamed polystyrene is characterized by a static contact angle of from 5° to 84°, preferably of from 30° to 83° in particular of from 40° to 82°, most preferably from 50 to 81°.

A further embodiment of the disclosure is a process for enhancing the hydrophilicity of solid non-foamed or foamed polystyrene by extruding, kneading, pressing or injection-molding a mixture of components A, B and P, as defined before.

Preferably, component A comprises 1, 2, 3, or 4, more preferably 1 or 2, even more preferably 1, alkyl sulfonates, alkylbenzene sulfonates or olefin sulfonates.

7. The use as claimed in any of claims 1 to 5, wherein the composition Z is a masterbatch MB and comprises

1.5 to 30 % by weight of component A;

3 to 60 % by weight of component B;

10 to 95.5 % by weight of component P;

with wherein the weight % being is based on the total weight of composition Z.

8. The use as claimed in any of claims 1 to 7, wherein component A is an alkali metal C_{12}-C_{18}-alkyl sulfonate.

9. The use as claimed in any of claims 1 to 8, wherein component P is a styrene homopolymer, an alkylstyrene homopolymer or a styrene copolymer.

~~10. A solid foamed or non-foamed polystyrene article comprising a composition Z as defined in any of claims 1 to 4, which article is in contact with water-containing food.~~

~~11. The article as claimed in claim 10, which is a film, a sheet or a container.~~

~~12. The article as claimed in claim 10, which is a food tray.~~

~~13. The article as claimed in any of claims 10 to 12, wherein component A is an alkali metal C_{12}-C_{18}-alkyl sulfonate.~~

~~14. The article as claimed in any of claims 10 to 13, wherein component P is a styrene homopolymer, an alkylstyrene homopolymer or a styrene copolymer.~~

~~15. The article as claimed in claim 14, wherein component P is a high impact polystyrene.~~