

Abstract

This Sheet Has Been Replaced



A single- or multi-layer sheet with substantially reduced gas-permeability, includes at least one layer, that at least partially consists essentially thermoplastically processable starch. In order to render this single- or multi-layer sheet at least nearly insensitive to moisture it is proposed, that the at least one layer includes a at least hydrophobic polymer, such as a polyolefin, which is mixed with the starch during the manufacture of the at least one layer and/or that the starch is at least partially crosslinked at the surface of the at least one layer and/or that the at least one layer is covered by at least one additional layer that is at least nearly insensitive to moisture.

and a method of producing a single-layer or multiple-layer sheet, a polymer blend consisting of a polyolefin and starch, a method of producing the polymer blend, thermoplastically processable starch, a method of producing thermoplastically processable starch, a sheet consisting of a polymer blend, and a shaped body consisting of a polymer blend