

Drying of plastic powders

"Continuous strippers" for polymer powder manufacturing

Often in the production process for plastic powders, a solvent such as methanol or alcohol is used, which then has to be completely evaporated again at a later stage. Depending on the consistency of the product, evaporating the solvent is not always particularly easy and the drying process often finishes with residual moisture content in the range of 3% - 5%.

At this point, evaporation has to be supported by means of adding pre-heated nitrogen, saturated steam or hot air, the so called "stripping" process, in order to achieve a residual moisture content of nearly 0%. AVA supplies a "continuous stripper" especially for this application in an ATEX-conform, explosion-proof design, with a special agitator, which supports the percolation of the plastic powder with the carrier medium, but also guarantees a good heat transfer by means of the cylinder jacket.

Due to the geometry of the agitator, a high level of back-mixing is achieved and the retention time in the dryer is increased. This guarantees a constant temperature and humidity in the entire dryer as well as a homogenous and dry end product.

