

ABSTRACT

The invention relates to a filter (1) for removing microscale or nanoscale plastic particles (6) from water, comprising a filter material (3; 3a) through which the water can flow. The filter medium (3; 3a) expediently comprises spheres (4, 5, 14-17; 4a, 5a, 14a-17a), wherein the spheres (4, 5, 14-17; 4a, 5a, 14a-17a) have a coating (7) which is designed for absorbing the plastic particles (6), and wherein the spheres (4, 5, 14-17; 4a, 5a, 14a-17a) are arranged in a bidisperse sphere packing. Arranging the coated spheres in a bidisperse sphere packing advantageously makes it possible to obtain a particularly high packing density and also to set a particularly high rate of flow through the filter.

Fig. 1a