

ABSTRACT

This application provides a composite separator and a battery. In a first aspect, this application provides a composite separator, which includes a base film and an adhesive coating. The adhesive coating includes polyethylene wax particles and inorganic particles. The polyethylene wax particles can play a good adhesive role, prevent dimensional changes caused by release of internal stress, and improve the problem of wrinkling of the separator upon electrolyte injection. The inorganic particles play a supporting role. By adjusting the weight ratio and the size ratio of the polyethylene wax particles and the inorganic particles, and the weight of the polyethylene wax particles per unit area, the air permeability increase before and after providing the adhesive coating and the air permeability increase of the composite separator before and after hot pressing can be reduced on the basis of ensuring the adhesion force of the composite separator, and the electrical performance of the battery can be improved.

FIG.1