

SEPARATOR AND METHOD FOR MANUFACTURING THEREOF**ABSTRACT**

A separator and a method for manufacturing thereof are disclosed. The separator comprises an enhanced porous polyolefin substrate and an inorganic layer, wherein the enhanced porous polyolefin substrate is obtained by pre-strengthening a porous polyolefin substrate, and the inorganic layer comprises a plurality of inorganic particles and a binder and coated on at least one surface of the enhanced porous polyolefin substrate, and the pre-strengthening treatment comprises sequentially applying a titanium alkoxide solution and an alcohol solution. The separator of the present invention has improved tensile strength and good compression resistance.

No Figure