BOPP film for solar power generation

Finally, the current research progress and trends of BOPP are summarized, in addition to providing ideas and suggestions for the further development of BOPP in terms of dielectric stability, ...

The fundamental and applied properties of BOPP films required for application in state-of-the-art DC metallized film capacitors are reviewed, highlighting aspects related to high temperature operation, ...

The surface modification is an effective approach to enhance the dielectric and energy storage performances of commercial capacitor films.

Therefore, this review aims to carry out a thorough exploration of recent investigations for enhancing high-temperature capacitive energy storage performance of BOPP films.

Research on polymers-particularly polypropylene-has yielded numerous innovations, but their energy storage performance and breakdown resistance under extreme conditions remain ...

As global demand rises for energy-efficient and high-performance materials, dielectric BOPP (biaxially oriented polypropylene) films have emerged as indispensable components in ...

Subsequently, the current research progress on the impact of BOPP processing on its dielectric properties is reviewed, in order to provide a reference point for the advancement of BOPP ...

The new film, characterised by its high-temperature resistance, voltage endurance, low dielectric loss, and strong self-healing capabilities, is designed for broad application in sectors ...

This study presents a straightforward and scalable method to enhance the high-temperature dielectric and energy storage capabilities of biaxially oriented polypropylene (BOPP) ...

Here, a modified method for rapidly reconstructing the defective surface of a BOPP film by pressure spray is

reported. It is found that the surface insulation defects of the BOPP film are ...

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