

Processing polypropylene film capacitor factory

What are the raw materials for capacitor films?

The preferred choice of raw materials for capacitor films are polypropylene (PP) and polyethylene terephthalate (PET). PP is independent of frequency and temperature ($105\text{--}176\text{C}$) and has a high impulse stability - therefore it can be used in AC and DC applications.

What is the difference between BOPP film and a capacitor film?

Capacitor films with a thickness of only 3.8 μm were prepared using industrial-largescale processing (biaxial stretching). The high-temperature breakdown strength and charge/discharge properties of the blended film are significantly improved compared with that of pure BOPP film.

Why are biaxially orientated polypropylene films used in film capacitors?

1. Introduction Biaxially-orientated polypropylene (BOPP) films are commonly used as dielectric materials in film capacitors because of their outstanding breakdown resistance, excellent charge-discharge efficiency, and largescale processability .

Does blended film improve the high-temperature resistance of capacitor films?

The high-temperature breakdown strength and charge/discharge properties of the blended film are significantly improved compared with that of pure BOPP film. In recent decades, enhancing the high-temperature resistance of capacitor films was a research focus, but largescale-producing high-temperature resistant films remains a difficult issue.

What is a metallized polyester capacitor?

Metallized polyester capacitors, also called film capacitors. They are made of out wrapped with mylar tape and ends sealed with epoxy resin. The metal layer is connected to the capacitor's electrodes, which are made of a thin layer of metal foil. The electrodes are connected to the capacitor's leads, they are axial leads of tinned wire in common.

What is CL21 coating polyester film capacitor?

CL21 Coating Polyester Film Capacitor is a type of capacitor which is made of polyester film. Coating Polyester Film Capacitor is coated with a special material that increases its performance and durability. This type of capacitor is known for its high capacitance, low leakage, and low dissipation factor.

We design and manufacture capacitor film production lines that are highly flexible and ideal for various applications, including electric vehicle applications (EVs). Our machines are equipped to produce high-quality polypropylene capacitor ...

Jimson is a professional manufacturer of polyester and polypropylene film capacitors for more than 34 years

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Shin-Etsu PP film is hazy polypropylene film used for high voltage capacitors. We use carefully selected high-purity polypropylene resin and a bubble filming process that allows simultaneous biaxial orientation. The major feature of this film is its unique network structure with evenly distributed irregularities on the surface. This structure ...

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Jimson Electronics (Xiamen) Co., Ltd. is a professional axial film capacitor manufacturer for the international market. We import advanced polyester film capacitor production equipment from Japan and Taiwan - which means we have state-of-the-art automation. Thanks to these machines, our efficiency has increased dramatically - they produce ...

Finally, the future development of PP capacitor film materials in China was prospected. Key words: polypropylene, capacitor film, biaxially orientated polypropylene, electrical conductivity. CLC Number: TQ325.1 + 4 Cite this article. SONG Wenlan, SONG Wenxing, LI Bing, WANG Xuan, OUYANG Yuge, ZHANG Peiqi, TIAN Huafeng. Research progress in polypropylene ...

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