

# EM TECH's Advantage: 5 Reasons We Are Your China Best Electrical Insulation Films Supplier



**Chengdu, Sichuan Jan 19, 2026** ([IssueWire.com](http://IssueWire.com)) - When global manufacturers seek reliable electrical insulation materials for mission-critical applications, one question consistently emerges: which supplier combines technical excellence, comprehensive product range, and proven industry leadership? As demands intensify across power transmission, renewable energy, and advanced electronics sectors, identifying the [China Best Electrical Insulation Films Supplier](#) becomes essential for operational success. With over five decades of specialized expertise, Sichuan EM Technology Co., Ltd. (EM TECH) has established itself as the definitive answer to this question.

Since its establishment in 1966 in Mianyang, Sichuan, EM TECH has evolved from a state-owned enterprise into China's first publicly listed electrical insulation material manufacturer. Operating the National Insulation Material Engineering Technical Research Center, the company serves critical sectors including UHV power transmission, smart grid infrastructure, rail transportation, 5G communications, and consumer electronics.

## Reason 1: Unmatched Industry Leadership and Heritage

EM TECH's position as a **China Top Insulation Materials Manufacturer** stems from demonstrable achievements that few competitors can match. The company has ranked first among domestic peers for 32 consecutive years, reflecting sustained technical superiority and market confidence. This leadership position is further validated by recognition as the largest new insulation material professional company in Asia.

In 2020, EM TECH received the prestigious Single Champion title for electrical polyester films in China, acknowledging its specialized dominance in this crucial product category. Five of the company's

subsidiaries have earned "Little Giant" designations under China's Specialized and Innovative Enterprise program, confirming their advanced capabilities in niche markets. Additionally, EM TECH ranked 54th among Sichuan Province's top 100 manufacturing enterprises in 2022, demonstrating both regional economic impact and industrial strength.

This heritage provides customers with stability and reliability that newer market entrants cannot offer. The company's comprehensive certification portfolio—including ISO9001, IATF16949:2016, ISO10012, OHSAS18001, and ISO14001—ensures that quality management systems meet international standards across all manufacturing operations.

## **Reason 2: Comprehensive Product Portfolio for Diverse Applications**

What distinguishes EM TECH as a [China Leading Polyester Films Factory](#) is its extensive product range that addresses virtually every electrical insulation requirement. The company manufactures complete insulation material solutions across five major categories.

### **Insulation Materials**

EM TECH's insulation material division produces polyester (PET) films specifically engineered for electrical applications, offering superior dielectric strength and thermal stability. These films serve power generation equipment, electrical motors, household appliances, compressors, and electronic equipment. The product line extends to halogen-free polycarbonate and polypropylene films that meet increasingly stringent environmental and safety regulations without compromising performance.

The company's flexible and rigid laminates provide essential structural support for electrical systems, while specialized adhesive tapes and protection films ensure reliable component assembly and protection. Each product undergoes rigorous testing to meet demanding specifications for UHV power transmission, smart grid applications, and new energy installations.

### **Optical PET Base Films**

Recognizing market evolution beyond traditional insulation applications, EM TECH has become China's leading optical film material production and research base in comprehensive strength. The optical PET base film portfolio includes specialized products for OCA (Optically Clear Adhesive), POL (polarizer), MLCC (Multi-Layer Ceramic Capacitor), BEF (Brightness Enhancement Film), diffusion films, window films, and release/protection films.

These advanced materials serve the rapidly expanding display, touch panel, and consumer electronics sectors. Products feature precise optical properties including low-haze high-transmittance formulations, matte finishes for anti-glare applications, and ultra-clean surfaces for MLCC release applications.

### **Capacitor-Grade Films and Specialty Materials**

As a **Leading Capacitor Grade Polypropylene Films Supplier From China**, EM TECH manufactures BOPP (Biaxially Oriented Polypropylene) films and metalized films specifically designed for capacitor applications. These films deliver the exceptional dielectric properties, thickness uniformity, and surface quality required for high-performance energy storage components used in power electronics, motor drives, and renewable energy systems.

The functional materials division produces flame-retardant polyester chips for safety-critical applications

in rail transit and vehicle interiors. PVB (Polyvinyl Butyral) resin and interlayers serve the automotive and architectural laminated glass industries, providing both safety and performance benefits.

## Advanced Resin Systems

EM TECH's electronic resin division supplies high-performance materials for copper-clad laminates (CCL) and other advanced applications. The product range includes standard epoxy resins, phenolic epoxy resins, brominated epoxy resins for flame retardancy, and specialized formulations such as DOPO phosphorus-containing epoxy and MDI-modified epoxy resins. These materials support the electronics manufacturing industry with solutions for printed circuit boards, IC packaging, and display technologies.

## Reason 3: Advanced Research and Technical Innovation

Operating the National Insulation Material Engineering Technical Research Center positions EM TECH at the forefront of industry innovation. This designation reflects the company's role in advancing insulation technology standards and developing next-generation materials for emerging applications.

The research infrastructure enables EM TECH to respond rapidly to evolving customer requirements and industry trends. Whether addressing demands for higher voltage ratings in power transmission, improved thermal management in electric vehicles, or enhanced optical properties for display applications, the engineering teams leverage decades of accumulated expertise and state-of-the-art testing facilities.

This technical capability extends beyond product development to comprehensive application engineering support. EM TECH collaborates with OEM partners to optimize material selection, validate performance in specific operating conditions, and troubleshoot field challenges. Such partnerships have proven particularly valuable in complex applications like IGBT modules and laminated busbars, where material properties directly impact system reliability and efficiency.

## Reason 4: Proven Applications Across Critical Industries

EM TECH's materials enable essential infrastructure and advanced technology systems worldwide. In power facilities, the company's insulation solutions support transformers, generators, and switchgear operating at voltages exceeding 1000kV. These applications demand materials that maintain dielectric integrity under extreme electrical stress while withstanding thermal cycling and environmental exposure over multi-decade service lives.

For rail transportation, EM TECH supplies specialized materials including flame-retardant films, PVB interlayers for windshields, and insulation systems for traction motors and power electronics. The stringent safety and reliability requirements of railway applications validate the company's quality management and technical capabilities.

In the rapidly evolving 5G communications sector, EM TECH's low-loss dielectric films and advanced laminates support high-frequency circuit performance while meeting demanding size and weight constraints. Consumer electronics applications leverage the company's optical films for displays, touch sensors, and flexible circuit boards.

The safety and health protection sector relies on EM TECH's PVB interlayers for building safety glass and protective equipment. ICT facilities utilize the company's precision films for data center equipment,

telecommunications infrastructure, and network components.

## Reason 5: Global Reach with Local Manufacturing Excellence

While maintaining deep roots in Sichuan Province, EM TECH operates a network of 20 wholly-owned, holding, and shareholding subsidiaries that provide manufacturing flexibility and market proximity. This structure enables the company to serve global customers while maintaining the quality control and technical consistency that complex applications demand.

The company's established partnerships with international OEMs demonstrate its capability to meet diverse regulatory requirements and quality standards across different markets. Whether supplying materials for European automotive applications, North American power systems, or Asian consumer electronics, EM TECH delivers consistent performance backed by comprehensive technical documentation and responsive customer support.

Export operations span power generation equipment, UHV power transmission, smart grid, new energy, rail transportation, consumer electronics, 5G communication, and panel display industries. This global footprint, combined with domestic manufacturing efficiency, positions EM TECH to support customers' sourcing strategies while mitigating supply chain risks.

Selecting the right electrical insulation films supplier requires evaluating not just product specifications but also organizational capabilities, industry experience, and long-term reliability. EM TECH's combination of 32 consecutive years of industry leadership, comprehensive product portfolio, advanced research infrastructure, proven applications, and global manufacturing network clearly establishes the company as the **China Best Electrical Insulation Films Supplier**.

For manufacturers seeking materials that meet the most demanding electrical, thermal, and environmental requirements, EM TECH offers both immediate solutions and long-term partnership value. Visit <https://www.dongfang-insulation.com/> to explore their complete product range and application expertise.



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