

# ACS At APFE: Showcasing High-Quality PET Plastic Films For A Wide Range Of Applications

FOSHAN, GUANGDONG, CHINA, January 15, 2026 /EINPresswire.com/ -- Foshan AoChuanShun New Material Industrial Co., Ltd. (ACS) recently participated in the International Adhesive Tape, Protective Film & Functional Film Expo (APFE) to present its technical advancements in functional substrate technology. As a specialized [High Quality PET Plastic Film Factory](#), ACS focuses on the precision manufacturing of polyethylene terephthalate (PET) films that serve as essential protective and functional layers in high-precision industries. These products utilize high-tenacity polyester resins to achieve superior dimensional stability, thermal resistance, and optical clarity. By integrating advanced coating techniques, the factory produces specialized PET films with customized surface tensions and adhesion levels, designed to safeguard sensitive surfaces—ranging from electronic display panels to automotive interior components—against physical abrasion and chemical contamination during the manufacturing process.

Industry Evolution: Trends in High-Performance Substrates

The global functional film industry is undergoing a period of structural transformation driven by the rapid expansion of high-end



manufacturing and the miniaturization of electronic devices. As hardware components become more delicate, the demand for high-performance substrates has moved beyond basic physical protection toward multi-functional integration.

**Miniaturization and Precision Handling:** In the semiconductor and micro-electronics sectors, the trend toward thinner and smaller components requires PET films with ultra-low gel counts and exceptional flatness. Substrates must maintain their structural integrity during high-speed automated processing to prevent microscopic surface defects.

**The Rise of Flexible Electronics:** The development of foldable displays and flexible printed circuits (FPC) has created a requirement for films with specific elongation properties and fatigue resistance. Industry participants are increasingly focusing on materials that can endure repetitive mechanical stress without delaminating or losing their protective properties.

**Sustainability and Regulatory Compliance:** Environmental transparency is becoming a core requirement for global supply chains. There is a clear industrial shift toward the reduction of Volatile Organic Compounds (VOCs) and the use of recyclable PET resins. Compliance with international standards such as RoHS and REACH is now a prerequisite for manufacturers serving the global market.

**Optical Enhancement Requirements:** With the proliferation of high-definition OLED and LCD technologies, the market for optical-grade films continues to expand. These materials must provide high light transmittance and low haze to ensure that the protective layer does not interfere with the visual performance of the final device.

#### APFE: A Strategic Platform for Thin-Film Innovation

The International Adhesive Tape, Protective Film & Functional Film Expo (APFE) serves as the primary trade and technology exchange for the global film and adhesive sectors. Established in 2007, the event has grown into a significant hub for the "Die-cutting & Coating" industry.

**Global Supply Chain Integration:** APFE facilitates direct interaction between raw material suppliers, film manufacturers, and equipment producers. This allows for a comprehensive overview of the entire value chain, from polymer resin synthesis to high-precision coating and slitting technologies.

**Technological Showcasing:** The expo provides a venue for the unveiling of new coating machinery and automated inspection systems. For manufacturers like ACS, the event is an opportunity to align production capabilities with the latest advancements in roll-to-roll manufacturing and cleanroom technology.

**Market Intelligence and Forecasting:** Beyond trade, APFE hosts technical forums where industry experts discuss the future of 5G-compatible materials and heat-shielding technologies. These insights help manufacturers calibrate their research and development efforts to meet the upcoming needs of the automotive and display sectors.

**Networking and Procurement:** The event attracts professional buyers from across the globe, facilitating international procurement cycles. It serves as a barometer for the technological direction of the Asian market, particularly in the development of specialized functional films for the burgeoning electric vehicle and smartphone industries.

#### ACS: Manufacturing Standards, Applications, and Technical Solutions

Foshan AoChuanShun New Material Industrial Co., Ltd. has established its market presence through a focus on material science and customized production protocols. The company's infrastructure is designed to provide reliability and consistency across various industrial sectors.

1. Technical Advantages and Infrastructure ACS operates precision coating lines within strictly controlled cleanroom environments. This is critical for the production of high-quality PET films, as it eliminates particulate contamination that could cause surface imperfections on optical-grade products. The company utilizes a rigorous quality management system, certified to ISO 9001 standards, which monitors physical parameters such as tensile strength, puncture resistance, and adhesive peel strength. By maintaining in-house laboratories, ACS ensures that every batch of film meets the specific technical data sheet (TDS) requirements of the client.

2. Product Applications and Use-Cases The functional films produced by ACS are utilized in environments where surface integrity is paramount to the product's final value:

Consumer Electronics: Protecting touchscreen glass, camera lenses, and mobile phone casings during CNC machining and assembly.

Automotive Industry: Safeguarding high-gloss interior decorative panels and infotainment screens from micro-scratches during vehicle assembly and logistics.

Optical Materials: Serving as a temporary carrier or protective layer for polarizers and diffusers within display backlight units.

Home Appliances: Providing durable barriers for brushed metal and glass panels on premium household appliances, resisting abrasion during the stacking and handling phases of global logistics.

3. Strategic Performance Integration ACS focuses on the synergy between the PET substrate and specialized adhesive systems. The factory offers customized formulations, including:

Anti-Static (ESD) Films: Integrated properties that prevent dust attraction and protect sensitive integrated circuits from electrostatic discharge.

Stable Peel Strength: Adhesive systems designed to ensure that the film adheres firmly during high-temperature processing but can be removed without leaving ghosting residues or chemical migration.

Wear-Resistant Coatings: Top-coatings that enhance the mechanical durability of the film, allowing it to withstand the frictional forces of robotic handling.

## Conclusion

As the global manufacturing sector evolves toward higher precision and stricter environmental compliance, the role of specialized protective materials remains vital. Through its participation in industry-leading events like APFE, Foshan AoChuanShun New Material Industrial Co., Ltd. continues to align its research and development with the shifting needs of the global market. By prioritizing high-tensile PET substrates and non-toxic adhesive systems that meet ISO 9001, RoHS, and REACH standards, ACS provides the industrial sector with the necessary security to deliver high-value products with total confidence.

For additional information regarding product technical data, environmental certifications, or custom project inquiries, please visit the official corporate website: <https://www.acs-plasfilm.com/>

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