

Positive Electrode Yellow Tab Tape 0.1Mm Thickness

Customizable Width For Lithium Battery Tab Sealing

Item Number: FZ47



Introduction

Engineered for high reliability pouch cell manufacturing this positive electrode yellow tab tape features 0.1mm thickness and customizable width ensuring superior electrolyte resistance hermetic heat sealing and robust electrical insulation across demanding battery assembly lines and research laboratories.

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Application	Description	Key Benefit
Pouch Cell Top Sealing	Applied to the positive aluminum tab lead where it exits the aluminum laminated film casing of lithium-ion pouch cells.	Creates an airtight, leak-proof barrier that isolates the metal tab from the packaging foil while preventing electrolyte evaporation.
EV & Energy Storage Pack Assembly	Integration into large-format prismatic pouch cells subjected to heavy vibration, thermal cycling, and high continuous current draw.	Maintains dielectric insulation and mechanical bond strength under aggressive thermal expansion and chemical exposure.
Solid-State Battery Prototyping	Sealing novel solid-state cell architectures requiring high bonding precision and robust resistance to elevated stack pressures.	Provides uniform boundary layer protection without pinholes, supporting high-pressure isostatic and heated pouch encapsulation.
Consumer Electronics Cell Fabrication	Precision insulation and sealing for ultra-thin polymer batteries used in smartphones, wearables, and portable digital devices.	Extremely consistent 0.1 mm profile prevents pouch deformities and ensures compact volumetric energy density in slim enclosures.
Automated Battery Pilot Lines	High-speed automated tab film taping and pre-welding integration for advanced battery research and quality validation.	Excellent flatness and dimensional tolerance (± 0.01 mm) eliminate equipment jamming and misfeeding during continuous roll processing.

Item Code	FZ47-Y	FZ47-W	FZ47-B
Tape Color	Yellow (□□□□)	Milky White (□□□□)	Black (□□□□)
Target Polarity / Use	Positive Electrode Lead Sealing	Universal / Dual Polarity Sealing	Negative / Specialized Sealing
Nominal Thickness (mm)	0.1 ± 0.1	0.1 ± 0.1	0.1 ± 0.1
Standard Width Options (mm)	8.0, 10.0	8.0, 10.0	8.0, 10.0
Width Tolerance (mm)	±0.01 (Customizable)	±0.01 (Customizable)	±0.01 (Customizable)
Thickness Sampling Standard	AQL-3 0.65	AQL-3 0.65	AQL-3 0.65
Thickness Inspection Instruments	Vernier Caliper / 2D Vision / Micrometer	Vernier Caliper / 2D Vision / Micrometer	Vernier Caliper / 2D Vision / Micrometer
Surface Appearance Quality	Uniform, smooth, free of curling, wrinkles, scratches, creases, bubbles, impurities, or tape misalignment	Uniform, smooth, free of curling, wrinkles, scratches, creases, bubbles, impurities, or tape misalignment	Uniform, smooth, free of curling, wrinkles, scratches, creases, bubbles, impurities, or tape misalignment

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Visual Inspection Sampling	AQL II 0.65	AQL II 0.65	AQL II 0.65
Inspection Method	Optical / Visual Inspection	Optical / Visual Inspection	Optical / Visual Inspection