

# Lithium Ion Battery Specialized Packaging And Bundling Tape With Customizable Width

Item Number: FZ46



## Introduction

Discover high performance lithium ion battery packaging and bundling tape featuring robust PET backing and precision acrylic adhesive. Engineered for superior dielectric insulation, high tensile strength, and clean removal across energy storage and cell manufacturing operations.

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| Application                                     | Description                                                                                                                          | Key Benefit                                                                                                                   |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Cylindrical Cell Core Termination               | Securing the final outer turn of the jelly-roll electrode assembly prior to can insertion (e.g., 18650, 21700, 4680 formats).        | Prevents electrode unwinding, maintains precise outer diameter tolerances, and avoids can-insertion jams.                     |
| Prismatic Cell Stacking & Bundling              | Wrapping and compressing multi-layer stacked electrode groups or winding elements prior to casing.                                   | Delivers high tensile containment, preserving stack alignment and preventing internal layer dislocation.                      |
| Pouch Cell Tab and Lead Insulation              | Applying protective insulating barriers over positive and negative terminal tabs and ultrasonic weld joints.                         | Eliminates tab edge abrasion against pouch sealing foils and provides high-voltage dielectric protection up to 5 kV.          |
| Battery Pack Module Busbar Wrapping             | Wrapping conductive copper and aluminum interconnect busbars and high-voltage wiring harnesses within battery modules.               | Provides primary electrical insulation, abrasion resistance, and secondary short-circuit protection in tight module cavities. |
| Thermal Management System Fastening             | Securing thermal interface pads, aerogel insulation blankets, and liquid cooling channels directly to cell surfaces.                 | Maintains continuous, reliable contact pressure without adhesive degradation under repeated thermal cycling.                  |
| Battery Management System (BMS) Wire Harnessing | Bundling NTC thermistor sensor leads, voltage sampling harnesses, and flex-printed circuits (FPC) to the module chassis.             | Guarantees neat, vibration-resistant cable management with zero risk of halogen contamination or wire chafing.                |
| Cell Formation and Testing Fixture Masking      | Masking bare metallic contacts and terminal studs during electrolyte filling, formation cycling, and environmental stress screening. | Resists electrolyte misting and elevated temperatures while peeling cleanly without residue prior to final pack integration.  |

| Parameter                 | FZ46-0030PAP                 | FZ46-0035PAP                 | FZ46-0050PAP                       | FZ46-0055PAP                       |
|---------------------------|------------------------------|------------------------------|------------------------------------|------------------------------------|
| Backing Material          | Specialized PET Film         | Specialized PET Film         | Specialized PET Film               | Specialized PET Film               |
| Adhesive Type             | Acrylic Pressure-Sensitive   | Acrylic Pressure-Sensitive   | Acrylic Pressure-Sensitive         | Acrylic Pressure-Sensitive         |
| Total Thickness (mm)      | 0.030                        | 0.035                        | 0.050                              | 0.055                              |
| Available Colors          | Clear / Black                | Clear / Black                | Dark Green / Blue / Yellow / Amber | Dark Green / Blue / Yellow / Amber |
| Peel Adhesion (N/25mm)    | 1.5 - 2.5                    | 2.5 - 3.5                    | 6.0 - 8.0                          | 6.0 - 8.0                          |
| Tensile Strength (N/25mm) | 50                           | 80                           | 85                                 | 95                                 |
| Breakdown Voltage (kV)    | 3.5                          | 3.5                          | 5.0                                | 5.0                                |
| Unwind Force Character    | Light                        | Light                        | Medium                             | Light                              |
| Standard Width (mm)       | Fully Customizable to Order  | Fully Customizable to Order  | Fully Customizable to Order        | Fully Customizable to Order        |
| Standard Length (m)       | 100 / 200                    | 100 / 200                    | 100 / 200                          | 100 / 200                          |
| Environmental Compliance  | RoHS Compliant, Halogen-Free | RoHS Compliant, Halogen-Free | RoHS Compliant, Halogen-Free       | RoHS Compliant, Halogen-Free       |