

Polyimide Tape for Lithium-Ion Batteries

Product Description

This product is a specialized polyimide tape engineered for lithium-ion battery applications. It features a high-performance acrylic adhesive on a polyimide film backing, designed to provide critical insulation and protection in demanding battery cell environments. The tape offers excellent resistance to battery electrolytes, high temperatures, and provides reliable electrical insulation.

Features & Applications

Electrolyte & Heat Resistant: Offers superior resistance to battery electrolytes and high temperatures.

Electrical Insulation: Provides high dielectric strength and reliable electrical insulation.

Battery Cell Protection: Specifically designed for insulating and protecting termination tabs (tabs) and edges in both prismatic (steel can) and pouch-type lithium battery cells.

General High-Temp Insulation: Also suitable for insulation and bundling in Class H motors, transformer coils, and high-temperature wire wrapping.

Compliance: Formulated to meet RoHS and halogen-free requirements.

Typical Structure

(Acrylic Adhesive) / (Polyimide Film) / (Coating)

Technical Data Sheet

The following technical data represents typical values and should not be construed as a specification. Users are advised to test for specific applications.

Item	Model IC-3200	Model IT-3300
Backing Material	Polyimide (PI) Film	Polyimide (PI) Film
Adhesive Type	Acrylic	Acrylic
Total Thickness	52 ± 3 μm	55 ± 3 μm

Item	Model IC-3200	Model IT-3300
Ideal Application Temp.	-10°C to 130°C	-10°C to 110°C
Color	Amber	Amber
Peel Adhesion	4 - 6 N/25mm	4 - 6 N/25mm
Tensile Strength	≥ 70 N/25mm	≥ 70 N/25mm
Electrolyte Resistance	Stable after 4 hours at 85°C	Stable after 4 hours at 85°C

Standard Length: 50 meters (can be customized).

Storage Conditions

Store in a cool, dry place.

Recommended storage temperature: 4°C to 26°C (40°F to 80°F).

Recommended relative humidity: 40% to 60%.

Protect from direct sunlight, heat sources, and freezing conditions.

Shelf Life: 6 months from the date of manufacture when stored under the above conditions.

Important Notice

The data provided is based on laboratory testing under standard conditions and is for reference only. It is the user's responsibility to evaluate the product's suitability for any specific application through appropriate testing. No warranty, express or implied, is made regarding fitness for a particular purpose. Specifications are subject to change without notice.