

Polyester Tape No.559B

For PCB Plating Masking on Uneven Surfaces

Technical Data Sheet
October 2026

Compiled from NICHIBAN Electrical Tapes product datasheet

General Description

NICHIBAN Polyester Tape No.559B is a green polyester film tape with a silicone pressure sensitive adhesive. Total thickness is **0.12 mm**, with a tensile strength of 46.5 N/10mm and an elongation of **113%**, the highest in NICHIBAN's PCB plating masking series.

The manufacturer specifies No.559B for **masking PCB terminals during plating where the surface has significant unevenness**. The thicker, more extensible film is applied over steps and relief around the terminals. For standard terminals, NICHIBAN offers the thinner No.559A (0.08 mm); for high heat resistance, No.692 polyimide tape (Class H).

Typical Applications

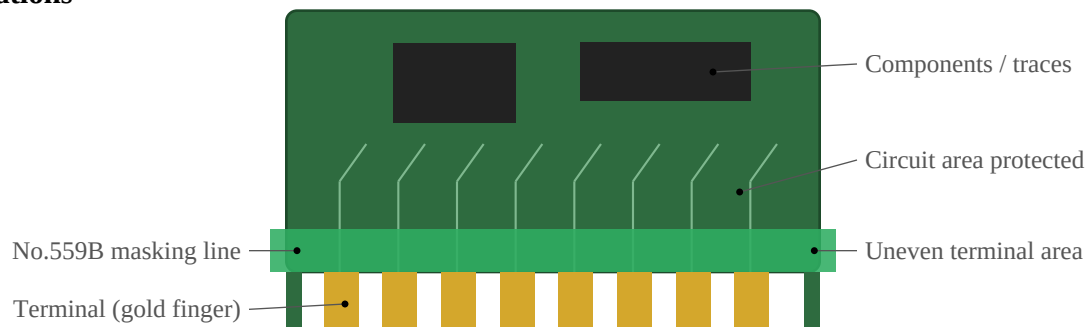


Illustration: tape applied above the terminals before the board enters the plating bath

Product Construction



Not to scale. Total thickness 0.12 mm; tape follows the surface relief.

Shelf Life and Storage

Shelf life is not stated in the manufacturer's datasheet; please ask WeTapeStore for lot information. As general practice, store rolls in their original packaging in a cool, dry place away from direct sunlight and heat.

Technical Data Sheet No.559B

Page 2

Physical Properties

Values shown are average measured values at 23°C, 50% RH. They are not guaranteed values and should not be used for specification purposes.

Product name:	Polyester tape
Backing:	Polyester
Adhesive:	Silicone pressure sensitive adhesive
Color:	Green
Thickness:	0.12 mm
Peel strength:	2.69 N/10mm
Tensile strength:	46.5 N/10mm
Elongation:	113 %
Heat resistance class:	Not specified by the manufacturer
Roll width / length:	Contact WeTapeStore. Custom slitting to required width available.

Product Selection (PCB Plating Masking Series)

Choose by board condition. All three models use silicone adhesive.

Model	Backing	Thick. (mm)	Peel (N/10mm)	Tensile (N/10mm)	Elong. (%)	Heat class	Use when
559A	Polyester	0.08	2.75	47.5	106	–	Standard PCB terminals
559B	Polyester	0.12	2.69	46.5	113	–	Significant surface unevenness
692	Polyimide	0.055	2.04	72.2	58	H	High heat resistance needed

Heat resistance class H = allowable maximum temperature of 180°C for electrical equipment.

Application Guidelines

1. Clean the board surface so it is dry and free of dust, oil and flux residue.
 2. Lay the tape along the masking line; follow the relief, do not stretch it.
 3. Press firmly at tape edges and step corners so no gap is left.
 4. Trial the tape on sample boards in the actual plating process before production use.
 5. Remove the tape after plating and inspect the board surface.
- These steps are general guidance for plating masking tapes, not manufacturer requirements.*

Precautions: This product is an adhesive tape for use with electricity. Do not use it for other purposes. Make sure that the tape is appropriate for the usage conditions prior to use.

Notice: Data in this sheet is compiled by WeTapeStore from the NICHIBAN Electrical Tapes product datasheet. Values are averages and not guaranteed. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's process, chemicals and temperatures. For roll sizes, quantities and lot information, contact WeTapeStore.



Distributor

WeTapeStore, Material One (Thailand) Co., Ltd.
www.wetapestore.com | LINE @wetapestore
Mon–Fri 08:00–17:00 (ICT)

