

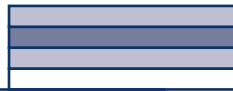
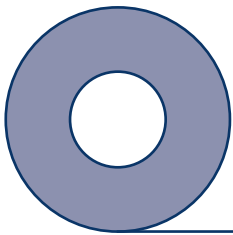
Product: **500AB**

Productgroup: **Bonding & Joining**

### General description

Nitto mounting tape No.500AB is a double-coated adhesive tape consisting of a flexible non-woven, impregnated with Nitto's black acrylic based adhesive. The tape is a specifically designed adhesive for use in preliminary processing of plastic nameplates for office automation equipment and household appliances.

### Construction



- Black acrylic adhesive
- Non-woven carrier
- Black acrylic adhesive
- Release liner: PE-laminated paper

### Characteristics

The release liner of NITTO 500AB is a strong PE-laminated paper, which allows easy processing and provides excellent dimensional stability even at severe climate conditions (humidity/temperature). The tape allows a firm bond between two different materials even when dimensional change occurs due to thermal shock (e.g. metal and plastic). The reliable black adhesive assures an excellent long term bond and avoids adhesive shadowing.

### Application

Nitto 500AB is specifically designed for bonding nameplates, metal sheets, plastic plates and molds, foam materials, mainly used in electrical appliances, automotive, office automation and consumer electronics devices.

### Features

- multi purpose
- black acrylic adhesive
- good workability
- excellent ageing properties
- good adhesion on multiple substrates
- excellent dimensional stable  
release liner: reference imprint
- excellent temperature cycle resistance

## Technical Properties

### General physical properties

		Test method
Adhesive type	Black modified acrylic	
Tape thickness*	0.16 mm	JIS Z 1528
Release liner type / colour	White PE-laminated printed paper	
Release liner thickness / weight	0.13 mm - 120 g/m <sup>2</sup>	JIS Z 1528
Carrier type	Non-woven	

\* tape thickness = total tape thickness without liner

### Performance properties

Adhesion to:		(test method: JIS Z 1528)	
	Stainless steel	ALU	STYROL
cN/20 mm	1200	800	850

Creep		(test method: JIS Z 1528)
After 60 minutes	1.1 mm slip	

Shear strength		(test method: JIS Z 1528)
At 20 °C		220 N/4cm <sup>2</sup>
At 70 °C		130 N/4cm <sup>2</sup>
At -10 °C		290 N/4cm <sup>2</sup>
After storage 168h at 40° C 95%RH		290 N/4cm <sup>2</sup>

### Application guidelines

- The surface to be bonded must be clean i.e. free of dust, release agents, processing oils and grease.
- The temperature of the application should not be below the dew point of the surrounding air. The warmer the tape the better the adhesive will wet out and consequently the higher the immediate adhesion will be.
- To ensure optimal anchorage of the tape to the foam attention should be paid to the lamination pressure, temperature and time.

Our technical center is always at your disposal for special application requests.  
Please contact us to make an appointment.

### Precautions

All products manufactured by NITTO EUROPE NV are guaranteed to be free from defect at the time of shipping when tested according to NITTO EUROPE NV product specifications. Properties of the products are susceptible to change due to various influences such as composition and condition of the substrate, impurities in or on the substrate, temperature and humidity of storage and the surrounding environment during application etc. When the NITTO product is used in combination with other material, the user shall assure by his own tests the compatibility of the NITTO product in the resulting combination and whether the combination results in the expected performance.

### Packaging and storage

The product should be protected against direct sunlight and extremes in temperature and humidity and stored upright in its original packaging. Once removed from its packaging, it should be protected against dust and other impurities.

### Test methods and results

The properties of these products are determined in accordance with NITTO test methods. Detailed description of these methods are available on request. The above figures are average values, established to our best knowledge, but not to be used for specification purpose.

Edition: November 2004  
Code: DS/08.01/E4 500AB ENG

Nitto Europe NV has obtained following certificates:

