

# Technical data sheet



Product: 500

Manufacturer: NITTO BELGIUM N.V.

Product group: KLEBEBAND

Article group: DOPPELSEITIG

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## NITTO 500(S) DOUBLE-COATED TAPE

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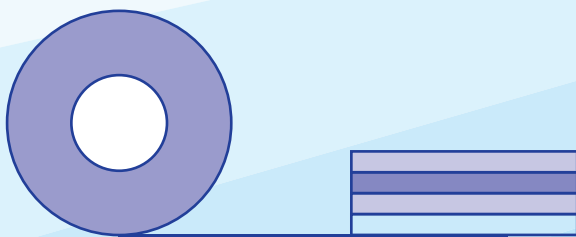
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## 500 - 500S

### General description

Nitto double-coated tape 500(S) consists of a non-woven tissue carrier, coated with a pressure sensitive acrylic adhesive. Used for a wide variety of mounting applications.

### Construction



- Modified acrylic adhesive
- Non-woven carrier
- Modified acrylic adhesive
- Paper release liner

### Characteristics

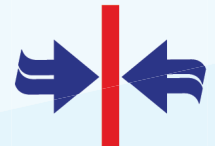
Nitto double-coated tape 500(S) has a reliable adhesive that assures good workability on multiple substrates used in different applications.

The modified acrylic pressure sensitive adhesive allows an excellent long term bond.

### Application

Nitto double-coated tape 500(S) is a multi-purpose tape designed for bonding nameplates, metal sheets, plastic plates, foam materials and molds, mainly used in electrical appliances, automotive, office automation equipment and consumer electronics devices.

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### Features

- multi purpose
- good workability
- good adhesion on multiple substrates
- good ageing properties
- high temperature resistance
- RoHS compliant (2011/65/EC, 2015/863)



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## Technical Properties

### General physical properties

	Typical Value	Test Method
Tape thickness*	0.160 mm	EN 1942
Adhesive type	Modified acrylic adhesive	
Release liner	500: Siliconised white paper (90 g/m <sup>2</sup> ) 500S: White siliconised PE coated paper (125 g/m <sup>2</sup> )	
Carrier type	Non-woven	
Static shear	1 mm/3h	EN 1943
Release value	500: 10 cN/50mm 500S: 35 cN/50mm	Nitto Belgium Test Method
Adhesion to BA steel	1200 cN/20mm	EN 1939
Transport and storage conditions	Temperature 15 °C to 30 °C Relative humidity 40 to 75% RH	

\* Tape thickness = Total thickness without liner

Details from the test methods are described on the customer product specification.

CAUTION: The above are typical values and should not be used in writing specifications.

### Performance properties

Adhesion		EN 1939	
PC	1300 cN/20mm	ABS	1200 cN/20mm
PMMA	1400 cN/20mm	PP	1000 cN/20mm
Weight Added Peel off (WAPO)		2h at 60 °C, width 20mm, 100g	
PP	10 min.	ABS	24 mm/2h
		BA	5 mm/2h
Saft test		130 °C	
Dynamic shear		450 N/4cm <sup>2</sup>	
		+0.5 °C/min, 15x15mm, 200g	
		Tested after 15 min., 300mm/min	

## Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

### Application guidelines

- For optimum results, an even rub down pressure must be applied to the taped area to create the best possible adhesion between tape and the substrates.
- To ensure optimal anchorage of tape to foam, attention should be paid to the lamination pressure, temperature and time.
- Remove the liner prior to usage.
- The tape should be applied to clean and dry surfaces.
- The best application conditions are obtained at a temperature between 15 °C and 40 °C.

### General conditions of use and precautions:

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage, the surrounding environment at and after application and time of exterior use. When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

### Packaging, transport and storage:

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

### Liability:

Except for its wilful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits.

The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product.

### Product information:

This datasheet provides a general description of the product properties and application scope. Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained following certificates:

- ISO 9001
- ISO 14001
- IATF 16949

Please check our website for applicable scope

If you require additional information on technical properties and application as well as product sampling or testing, please contact your local Nitto sales office.

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