

## PRODUCT GROUP

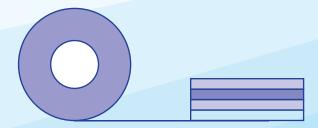
## **DOUBLE-COATED TAPES**

### 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.

# **CORE FUNCTION**



#### **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/m²)		
	500S: White siliconised PE coated paper (125 g/m²)		
Carrier type	Non-woven		
Static shear	1 mm/3h	EN 1943	
Release value	500: 10 cN/50mm	Nitto Belgium Test Method	
	500S: 35 cN/50mm		
Adhesion to BA steel	1200 cN/20mm	EN 1939	
Transport and storage	Temperature 15 °C to 30 °C		
conditions	Relative humidity 40 to 75% RH		

<sup>\*</sup> 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		
Р	С	1300 cN/20mm	ABS	1200 cN/20mm	PET	1000 cN/20mm
Р	MMA	1400 cN/20mm	PP	1000 cN/20mm		
V	Veight Added Peel off (WAPO)				2h at 60 °C, width 20mm, 100g	
Р	Р	10 min.	ABS	24 mm/2h	ВА	5 mm/2h
Saft test		130 °C		+0.5 °C/min, 15x15mm, 200g		
Dynamic shear		450 N/4cm <sup>2</sup>		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.

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

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

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