

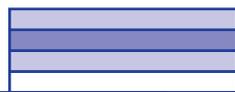
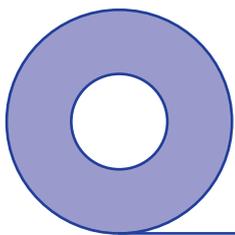
Product: **D53820B**

Product group: **Double Coated Tapes**

## General description

Nitto D53820B is a lens mounting tape that consists out of a pressure sensitive adhesive and is used to mount plastic parts into electronic devices.

## Construction



- Pressure sensitive acrylic adhesive
- Polyester carrier
- Pressure sensitive acrylic adhesive
- Release liner

## Characteristics

This product has a good adhesion to metal and various plastics. Nitto D53820B performs excellent in the “lens push-out” and “holding power” testings and has low fogging properties (DIN 75201).

A PET carrier of 23 $\mu$  allows easy processability.

## Application

Nitto D53820B is used for mounting of lenses onto mobile phones or for fixing parts for compact home appliances.

## Features

- good adhesion to metal and various plastics
- excellent “lens push-out” and “holding power” test
- low fogging (DIN 75201)
- easy processability
- RoHS compliant (2011/65/EC, 2015/863)

## Technical Properties

### General physical properties

	Typical Value	Test Method
Adhesive type	Pressure sensitive acrylic adhesive	
Tape thickness*	0.200 mm	EN 1942
Carrier	Black PET (0.023 mm)	
Release liner	Paper (65 g/m <sup>2</sup> )	
Release value	15 cN/50mm	Nitto Belgium Test Method
Adhesion to BA steel	1600 cN/20mm	EN 1939
Static shear	0.5 mm/3h	EN 1943
Transport and storage conditions	Temperature 15 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 in cN/20mm					EN 1939
PMMA	PC	ABS	PET	Glass	
1800	1600	1700	600	1700	
Weight Added Peel Off (WAPO)					2 h at 60°C, width 20mm, 100g
PP	10 mm/2h		ABS	5 mm/2h	BA 2 mm/2h
Dynamic Shear					500 N/4cm <sup>2</sup> Tested after 15 min., 300mm/min.
Soft test (Shear Adhesion Failure Temperature) 175 °C					+0,5°C/min., 15x15mm, 200g
Lens Push out					240 N PC, ABS, 40x40x5 mm
Fogging					1.7 mg/50cm <sup>2</sup> DIN 75201

### 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 and 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.

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

Edition: January 2019  
Code: DS/01.11/ D53820B ENG  
This datasheet replaces all previous versions

Nitto Belgium NV has obtained following certificates:

- ISO 9001
  - ISO 14001
  - IATF 16949
- Please check our website for applicable scope



For your local Nitto sales office, please visit our web site:

[www.nitto.com](http://www.nitto.com)

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