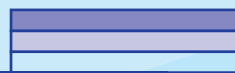
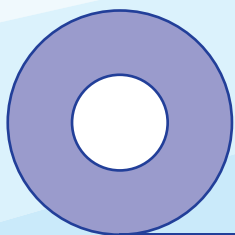


## EST-812(DL)

### General description

Nitto EST-812(DL) is a transfer tape which consists out of a pressure sensitive pure acrylic adhesive, intended for use as a general mounting tape where a particular high adhesion level on high surface energy substrates is required.

### Construction



- Smooth siliconised PET liner
- Pure acrylic adhesive
- PE-coated paper release liner

### Characteristics

Nitto EST-812(DL) has a pure acrylic adhesive layer which combines high repulsion resistance with excellent adhesion properties on a wide range of high surface energy substrates like PET, PC, PMMA, steel, ...

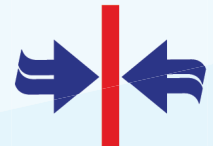
This tape is suitable for a wide range of working temperatures and has a good UV- and chemical resistance. The thin and smooth coating surface allows flexible and conformable application.

Nitto EST-812(DL) is available with double liner to ensure smooth coating surface.

### Application

Nitto EST-812(DL) transfer tape is used for membrane switches, graphic overlays and nameplates bonded to high surface energy plastics, steel, aluminium, ... suitable for interior and exterior applications.

## CORE FUNCTION



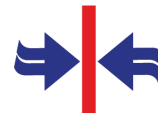
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### Features

- high repulsion resistance
- wide range of working temperatures
- high adhesion on high surface energy substrates
- good converting properties
- UV- and chemical resistance
- RoHS compliant (2011/65/EC, 2015/863)
- UL certified product (UL 746A / UL 746C)



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This datasheet replaces all previous versions



## Technical Properties

### General physical properties

	Typical Value	Test Method
Tape thickness*	0.12 mm	EN 1942
Adhesive type	Pure acrylic adhesive	
Release liner type/colour	White PE coated paper with grey Nitto print (125 g/m <sup>2</sup> ) (DL) available with second polyester liner (0.036 mm)	
Carrier type	None (baseless tapes)	
Adhesion to BA steel	1300 cN/20mm	EN 1939
Release value (closed side)	Paper: 65 cN/50mm Polyester: 10 cN/50mm	Nitto Belgium Test Method
Static shear	0 mm/3h	EN 1943
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	1400 cN/20mm	ABS	1400 cN/20mm	
PMMA	1400 cN/20mm	Glass	1200 cN/20mm	
Weight Added Peel off (WAPO)				2h at 60 °C, width 20mm, 100g
PC	15 mm/2h	ABS	5 mm/2h	PMMA 5 mm/2h
Soft test	175 °C			
				+0.5 °C/min, 15x15mm, 200g

## 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

- Keep the tape in its original packaging until use.
- 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.
- 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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