

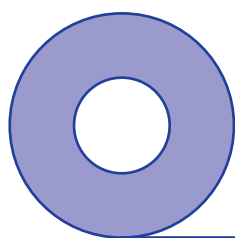
Product: **EST-812(DL)**

Product group: **Baseless Tapes**

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



- 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.

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)

Technical Properties

General physical properties

	Typical Value	Test Method
Adhesive type	Pure acrylic	
Tape thickness*	0.12 mm	EN 1942
Release liner type/colour	White PE coated paper with grey Nitto print (DL) available with second liner (PET)	
Carrier type	None (baseless tape)	
Release Value (closed side)	65 cN/50mm	Nitto Belgium Test Method
Adhesion to BA steel	1300 cN/20mm	EN 1939
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 in cN/20mm (EN 1939)			
PMMA	ABS	PC	Glass
1400	1400	1400	1200
Weight Added Peel Off (WAPO) in mm/2h			
PC: 15 mm	ABS: 5 mm	PMMA: 5 mm	2 h at 60°C, width 20mm, 100g
Saft test (Shear Adhesion Failure Temperature) 175 °C Temperature increase +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.

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.

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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

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