

Product: **597AP**

Product group: **Baseless Tapes**

General description

Nitto transfer tape 597AP consists of a pressure sensitive modified acrylic adhesive. The thin and smooth coating surface makes this type suitable for nameplate and graphic overlays applications.

Construction



Characteristics

The thin and smooth coating surface of 597AP provides a good cohesion to a variety of thin materials (nameplates) and allows a high bonding of thin plastics.

Application

The tape is designed for mounting of a variety of substrates such as metal and plastic nameplates, films, offset-blankets, textile labels, metal foils...

Features

- high adhesion
- high cohesion
- thin and smooth coating surface
- RoHS compliant (2011/65/EC, 2015/863)
- UL certified:
UL 746A / UL 746C

Technical Properties

General physical properties

	Typical Value	Test Method
Adhesive type	Modified acrylic	
Tape thickness*	0.050 mm	EN 1942
Release liner type	597AP: Siliconised PE coated white paper (125 g/m ²)	
Carrier type	None (baseless tape)	
Release value	20 cN/50mm	Nitto Belgium Test Method
Adhesion to BA steel	1000 cN/20mm	EN 1939
Static shear	1 mm/2h	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)							
PVC	PMMA	PC	ABS	PP	PET	Glass	
1100	1300	1300	1000	400	700	1200	
Weight Added Peel Off (WAPO) in mm/2h				(2 h at 60°C, width 20mm, 100g)			
PP	ABS	BA					
400	40	20					
Saft test (Shear Adhesion Failure Temperature)							
100 °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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