

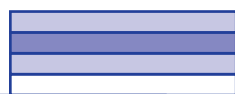
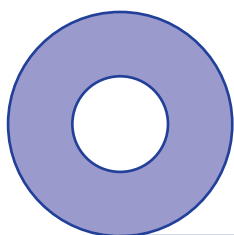
Product: **5790 series**

Product group: **Double Coated Tapes**

## General description

Nitto 5790 series are double coated foam tapes, based on a cross linked polyolefine foam, coated with pressure sensitive adhesive, having excellent bonding properties, especially on low energy surfaces.

## Construction



- Modified acrylic adhesive
- Polyolefine foam carrier
- Modified acrylic adhesive
- Paper release liner

## Characteristics

Nitto 5790 series are double-coated foam tapes with excellent adhesion properties on a wide range of materials such as extruded or moulded plastic parts out of PP, ABS, PC, ea, (lacquered) steel and glass.

The flexible foam carrier conforms easy to the irregularities of the substrate and provides a good impact resistance, sound dampening and sealing properties.

## Application

Nitto 5790 series are designed for bonding metal sheets, nameplates, emblems, glass parts and a wide range of plastics to several substrates.

These products can be used for interior and exterior applications.

## Features

- excellent holding properties
- excellent repulsion resistance
- good shock absorbance
- adhesion on a wide range of materials (especially on polyolefine)
- absorb irregularities of the substrate
- good impact resistance
- sound dampening and sealing properties
- RoHS compliant

### Technical Properties

#### General physical properties

	Typical value	Test Method
Adhesive type	Modified acrylic adhesive	
Tape thickness*	0.6 mm, 0.9 mm or 1.1 mm	EN 1942
Release liner	Siliconised brown paper (120 g/m <sup>2</sup> )	
Carrier type	Anthracite crosslinked polyolefine foam (185 kg/m <sup>3</sup> )	
Release value	30 cN/50mm	Nitto Europe Test Method
Adhesion to BA steel	1700 cN/20mm	EN 1939 (180°)
Static shear	1.0 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.

#### Performance properties

Compression load 25%	62 kPa	ISO 844
Dynamic Shear	500 N/4cm <sup>2</sup>	Tested after 15 min., 300mm/min.
Soft test (Shear Adhesion Failure Temperature)	115°C	+0,5°C/min., 15x15mm, 200g
Weight Added Peel Off (WAPO)	2 h at 60°C, width 20mm, 100g	
PP 15 mm/2h	ABS 17 mm/2h	BA 2 mm/2h

### 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.
- 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.
- We can make recommendations for an additional process liner, please contact us.

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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Code: DS/01.11/ 5790 series ENG

This datasheet replaces all previous versions

Nitto Belgium NV has obtained following certificates:

- ISO 9001
  - ISO 14001
  - ISO/TS 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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