

Technical data sheet



Product: 5790 SERIES

Manufacturer: NITTO BELGIUM N.V.

Product group: KLEBEBAND

Article group: DOPPELSEITIG

Download: 27.04.2024

NITTO 5790YPP SERIES

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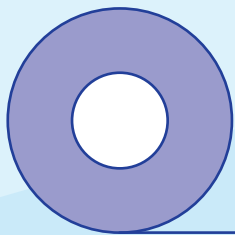
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5790YPP SERIES

General description

Nitto 5790YPP 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
- Polypropylene release liner

Characteristics

Nitto 5790YPP 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.

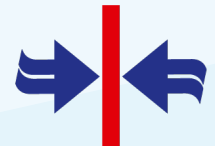
The yellow, moisture stable PP liner produces no burrs and has a high tear resistance.

Application

Nitto 5790YPP 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.

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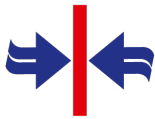
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Features

- 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
- strong tear resistant PP liner
- sound dampening and sealing properties
- RoHS compliant (2011/65/EC, 2015/863)



Edition: Dec 2022
Code: DS/12.22/ DCT 5790YPP ENG
This datasheet replaces all previous versions



Technical Properties

General physical properties

	Typical value	Test Method
Tape thickness*	0.6mm(YPP5),0.9mm(YPP8),1.1mm(YPP10)	EN 1942
Adhesive type	Modified acrylic adhesive	
Release liner type	2 sided siliconised yellow polypropylene (100 µm)	
Carrier type	Crosslinked polyolefine foam (185 kg/m ³)	
Adhesion to BA steel	1700 cN/20mm	EN 1939 (180°)
Release value	40 cN/50mm	Nitto Belgium Test Method
Static shear	1.0 mm/3h	EN 1973
Optimum transport and storage conditions	Temperature 5 °C to 35 °C Relative humidity 40 to 85% 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
Compression load (25%)	62 kPa	+0.5 °C/min., 20x15mm, 200g
Dynamic shear	500 N/4cm ²	tested after 15 min., 300 mm/min
Weight Added Peel Off (WAPO)		2h at 60 °C, width 20mm, 100g
PP 15 mm/2h	ABS 17 mm/2h	BA 2mm/2h
Saft test	115 °C	+0.5 °C/min, 20x15mm, 200g

* Failure coming from PE foam

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 12 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.
- For an additional or process liner we recommend to use following liners:
LR-P-579x white one sided siliconised PE coated liner, LR-PE(1/2)-579x white two sided PE coated paper liner.

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. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

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.

Edition: Dec 2022
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