

Technical data sheet



Product: D5052

Manufacturer: NITTO BELGIUM N.V.

Product group: KLEBEBAND

Article group: DOPPELSEITIG

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NITTO D5052/D5052H DOUBLE COATED TAPES

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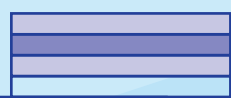
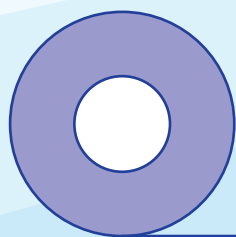
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D5052 - D5052H

General description

Nitto double coated tape D5052 and D5052H consist of a non-woven carrier coated with a pressure sensitive modified acrylic adhesive, intended for use on different foams where high adhesion levels are required.

Construction



- Colourless modified acrylic adhesive
- Non-woven carrier
- Colourless modified acrylic adhesive
- Paper release liner

Characteristics

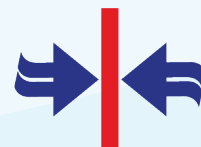
Nitto D5052(H) is intended for use as a foam lamination tape where a particular high adhesion level and temperature resistance is required.

The relative soft adhesive allows lamination on foams at room temperature.

Application

These products have been designed for lamination to a variety of PUR foams, impregnated foams and many other substrates such as textiles, fabrics, cork and felts.

CORE FUNCTION



TO ADHERE

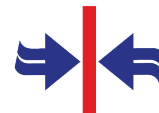
Features

- high initial adhesion
- polyvalent on different foams
- different release liners
- RoHS compliant
(2011/65/EC, 2015/863)



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This datasheet replaces all previous versions



Technical Properties

General physical properties

	Typical Value	Test Method
Adhesive type	Colorless modified acrylic adhesive	
Tape thickness*	0.145 mm	EN 1942
Release liner type/colour	D5052: Siliconised white paper (120 g/m ²) D5052H: Siliconised havana paper (90 g/m ²)	
Carrier type	Non-woven	
Release value	D5052: 40 cN/50mm D5052H: 35 cN/50mm	Nitto Belgium Test Method
Adhesion to BA steel	2000 cN/20mm	EN 1939
Static shear	1.0 mm/3h	EN 1943
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 in cN/20mm		EN 1939
PMMA 1900 cN/20mm	ABS 1600 cN/20mm	PU foam 700 cN/20mm
PC 1900 cN/20mm	PET 1400 cN/20mm	PO foam 1000 cN/20mm
Weight Added Peel Off (WAPO)	2 h at 60°C, width 20mm, 100g	
PP 220 mm/2h	BA 200 mm/2h	ABS 220 mm/2h
Dynamic shear	600 N/cm ²	Tested after 15min, 300ml/min
Soft test	85 °C	+0,5°C/min., 20x15mm, 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 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.
- To ensure optimal anchorage of tape to foam, attention should be paid to the lamination pressure, temperature and time.
- 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. 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.

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