

Product: **5015ELE**

Product group: **Double Coated Tapes**

General description

Nitto double-coated tape 5015ELE consists of a non-woven tissue carrier, coated with a pressure sensitive acrylic adhesive with low emission values. Used for a wide variety of mounting applications.

Construction



Characteristics

Nitto 5015ELE has a significant reduced amount of VOC (volatile organic compound), fogging and smell. The product complies with the emission standards (VDA 278) set by the automotive industry.

Nitto 5015ELE has an excellent adhesion on different foams and plastics, especially on low energy surfaces. The tape has a high repulsion resistance.

It can easily follow the contour of the substrates thanks to the non-woven tissue carrier. Nitto 5015ELE is RoHS compliant and free of toluene.

Application

Nitto 5015ELE is a double-coated pressure sensitive adhesive tape with low emission values used to mount different substrates in airtight places such as automotive interiors, electronic devices and houses. The tape is designed to make foams (PU, PE, PO, PP, etc.) self-adhesive. Especially when they are exposed to severe stress, as in automotive applications. This tape can also be used to bond graphic overlays, plastic plates and molds, surely if they have a low surface energy.

Features

- reduced amount of VOC, formaldehyde, fogging and smell
- complies with VDA 278 (Fresenius Institute)
- high adhesion on difficult to adhere materials e.g. low surface energy
- high repulsion resistance
- high heat resistance
- good workability
- recognition by imprint of the carrier
- RoHS compliant

Technical Properties

General physical properties

	Typical value	Test Method
Adhesive type	Modified acrylic adhesive	
Tape thickness*	0.160 mm	EN 1942
Release liner type/colour	Siliconised white PE-coated paper with green Nitto print (125 g/m ²)	
Carrier type	Non-woven	
Release Value	25 cN/50mm	Nitto Europe Test Method
Adhesion to BA steel	1400 cN/20mm	EN 1939
Static shear	0.5 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

Adhesion in cN/20mm		EN 1939			
PMMA	PC	ABS	PP	PET	Glass
1600	1800	1600	1400	1500	1800
Weight Added Peel Off (WAPO)		2 h at 60°C, width 20mm, 100g			
PP 4 mm/2h		ABS 6 mm/2h		BA 2 mm/2h	
Dynamic Shear		450 N/4cm ²		Tested after 15 min., 300mm/min.	
Soft test (Shear Adhesion Failure Temperature) 175 °C		+0,5°C/min., 15x15mm, 200g			
Low emission tests					
Fogging (Fresenius)		11 ppm		VDA 278	
Formaldehyde		0 mg/kg		VDA 275	
VOC (Fresenius)		48 µg/g		VDA 278	
Smell (scale 1 to 5)		2		VDA 270	

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 individual 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
 - ISO/TS 16949
- Please check our website for applicable scope