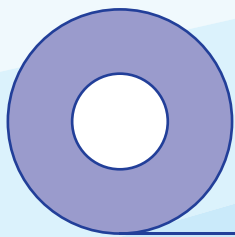


5005TLE

General description

Nitto 5005TLE is a transfer tape consisting out of a low emission pressure sensitive acrylic adhesive, intended as a general mounting tape.

Construction



-Modified acrylic adhesive
-PE-coated release liner

Characteristics

Nitto 5005TLE 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 5005TLE combines an excellent adhesion with a high repulsion resistance, especially on low energy surfaces.

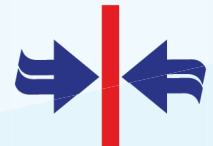
The thin and smooth coating surface allows a flexible and conformable application. Nitto 5005TLE is RoHS compliant and has a reduced amount of toluene.

Application

Nitto 5005TLE is a baseless 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.

CORE FUNCTION



TO ADHERE

Features

- reduced amount of VOC, formaldehyde, fogging and smell
- complies with VDA 278
- high adhesion on difficult to adhere materials e.g. low surface energy
- high repulsion resistance
- high heat resistance
- good workability
- recognition by green imprint of the carrier
- 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
Tape thickness*	0.050 mm	EN 1942
Adhesive type	Modified acrylic adhesive	
Release liner type/colour	Siliconised white PE coated paper with green print (125 g/m ²)	
Carrier type	None (baseless tape)	
Adhesion to BA steel	1200 cN/20mm	EN 1939
Release value	45 cN/50mm	Nitto Belgium Test Method
Static shear	1 mm/3h	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		EN 1939
PC 1300 cN/20mm	ABS 1200 cN/20mm	
PMMA 1300 cN/20mm	PP 1200 cN/20mm	
Weight Added Peel off (WAPO)		2h at 40 °C, width 20mm, 100g
PP 10 mm/2h	ABS 15 mm/2h	
Soft test	130 °C	+0.5 °C/min, 15x15mm, 200g
Low emission tests		
Fogging	0.60 mg	DIN 75201
VOC	10 ppm (VDA 278)	65 ppm (VDA 277)
Smell (scale 1 to 5)	2	VDA 270
Formaldehyde	non detectable	VDA 275

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.

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.

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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