

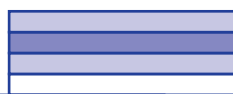
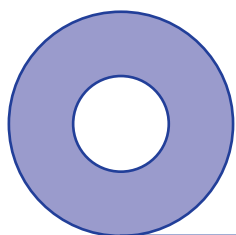
Product: **57-LE series**

Product group: **Double Coated Tapes**

General description

Nitto 57-LE series are pressure sensitive adhesive foam tapes with low emission values used to mount different substrates in airtight places such as automotive interior and electronic devices. The softness of the foam absorbs the irregularities of two rigid substrates.

Construction



- Pressure sensitive acrylic adhesive
- Polyolefin foam
- Pressure sensitive acrylic adhesive
- PE-coated paper liner

Characteristics

Nitto 57-LE series are RoHS compliant. They have a significant reduced amount of VOC (volatile organic compound).

The soft foam has the ability to absorb irregularities of rigid or rough substrates and provide good shock absorbance properties. The products show an excellent adhesion on different substrates, specially on LSE, in combination with a high cohesion even under severe stress. They can easily follow the contour of irregular substrates.

Application

Nitto 57-LE series are used for mounting plastic and metal parts in electronic devices and automotive interior sealing applications.

Features

- RoHS compliant
- reduced amount of VOC (volatile organic compound)
- follows the specifications of the automotive industry on formaldehyde content
- excellent adhesion to different substrates specially on LSE
- high cohesion under stress
- good shock absorbance
- soft foam adapts easy to irregular shapes

Technical Properties

General physical properties

	5703LE	5704LE	5706LE	5709LE	5711LE	
Adhesive type	Modified acrylic					
Tape thickness*	0.25 mm	0.35 mm	0.55 mm	0.85 mm	1.05 mm	EN 1942
Release liner type	PE-coated paper with green Nitto print (125 g/m ²)					
Carrier type	Polyolefin foam anthracite					
Release value (cN/50mm)	40	40	40	50	50	Nitto Europe test method
Adhesion to BA steel (cN/20mm)	1400	1600	1600	1600	1700	EN 1939
Static shear	1 mm/3h	1 mm/3h	1 mm/3h	1 mm/3h	1 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

Emission values		
Fogging	< 2 mg	DIN75201
Volatile Organic Compound	<100 ppm	VDA277
Formaldehyde content	<1 ppm	VDA275
Weight Added Peel Off (WAPO)		
	2h at 40°C, width 20mm, 100g	
5703LE	ABS: 15 mm/2h	PP: 50 mm/2h
5704LE	ABS: 10 mm/2h	PP: 30 mm/2h
5706LE	ABS: 10 mm/2h	PP: 40 mm/2h
5709LE	ABS: 10 mm/2h	PP: 35 mm/2h
5711LE	ABS: 10 mm/2h	PP: 10 mm/2h
Soft test (Shear Adhesion Failure Temperature)	115 °C	+0,5°C/min., 15x15mm, 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 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.

Edition: November 2015
Code: DS/01.12/E4 57LE 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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