

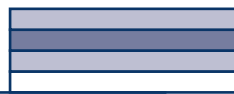
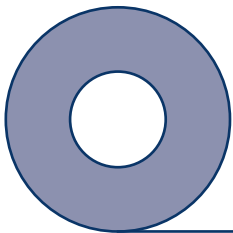
Product: **D5311**

Productgroup: **Bonding & Joining**

## General description

Nitto double coated tape D5311 consists of a modified acrylic adhesive, coated on a 23 micron black polyester suitable for a variety of mounting applications. The white PET- release liner provides an easy conversion of the tape. The differential adhesive thickness provides an excellent use on combinations with different surface roughness.

## Construction



- Modified acrylic adhesive
- Polyester: Black 23 micron
- Modified acrylic adhesive
- Release liner: white siliconised PET

## Characteristics

Nitto D5311 consists of a modified acrylic adhesive, coated on a 23 micron black polyester. The white PET release liner provides an easy conversion of the tape and guarantees an easy detection of converted pieces by colour contrast.

The unequal adhesive coating weights on both sides of the liner allows an easy application of substrates with different surface roughness. The combination of very high cohesion properties and excellent adhesion on plastics gives the tape a high push out resistance (mobile phone).

## Application

Nitto D5311 is designed for mounting applications such as plastics, metals, damping and sealing materials where the black colour is requested. In CE-related markets it can be used for mounting of lenses and sound components (such as speakers, buzzers, microphones) where black colour is requested.

## Features

- excellent adhesion on plastics
- high push out resistance (mobile phone)
- PET release liner provides easy and stable die cutting
- easy detection of converted pieces
- very high cohesion properties
- a differential adhesive coating weight

## Technical Properties

### General physical properties

		Test method
Adhesive type	Modified acrylic	
Tape thickness*	0.150 mm	NITTO 01B
Adhesive thickness Side 1	0.055 mm	
Adhesive thickness Side 2	0.075 mm	
Release liner type / colour	White siliconised polyester	
Release liner thickness	0.050 mm	NITTO 01G
Carrier type	Black polyester, 0.023 mm	
Release value	25 cN / 50 mm	NITTO 37A
Adhesion to stainless steel	Side 1: 1600 cN/20 mm	NITTO 15A
	Side 2: 1700 cN/20 mm	NITTO 16A
Creep on BA-steel	0 mm	NITTO 62A
Shear	715 N/4 cm <sup>2</sup>	NITTO 73A (BA-steel)

\* tape thickness = total tape thickness without liner

### Performance properties

Adhesion		(test method NITTO 15A/16A)			
cN/20 mm		PC	ABS	PMMA	PP
Side 1		1400	1600	1500	800
Side 2		1700	1700	1850	1350
Cohesion		(test method NITTO 4084)			
Holding power		OK			
Repulsion on PP		0 mm			
Heat resistance		175 °C			
Push-out test					
Initial		100 N			
Aged		135 N			

### Application guidelines

- The surface to be bonded must be clean i.e. free of dust, release agents, processing oils and grease.
- The temperature of the application should not be below the dew point of the surrounding air. The warmer the tape the better the adhesive will wet out and consequently the higher the immediate adhesion will be.
- To ensure optimal anchorage of the tape to the foam attention should be paid to the lamination pressure, temperature and time.

Our technical center is always at your disposal for special application requests.  
Please contact us to make an appointment.

### Precautions

All products manufactured by NITTO EUROPE NV are guaranteed to be free from defect at the time of shipping when tested according to NITTO EUROPE NV product specifications. Properties of the products are susceptible to change due to various influences such as composition and condition of the substrate, impurities in or on the substrate, temperature and humidity of storage and the surrounding environment during application etc. When the NITTO product is used in combination with other material, the user shall assure by his own tests the compatibility of the NITTO product in the resulting combination and whether the combination results in the expected performance.

### Packaging and storage

The product should be protected against direct sunlight and extremes in temperature and humidity and stored upright in its original packaging. Once removed from its packaging, it should be protected against dust and other impurities.

### Test methods and results

The properties of these products are determined in accordance with NITTO test methods. Detailed description of these methods are available on request. The above figures are average values, established to our best knowledge, but not to be used for specification purpose.

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Nitto Europe NV has obtained following certificates:

