

Product: **5015E**

Product group: **Bonding & Joining**

General description

Nitto 5015E is a non-woven based double coated tape using a pressure sensitive modified acrylic adhesive coated on a white printed separator. It assures a reliable and powerful bond between plastics and metals and shows a high repulsion resistance.

Construction



- Acrylic adhesive
- Carrier: Non-woven tissue
- Acrylic adhesive
- Siliconised paper with NITTO imprint

Characteristics

Nitto 5015E is a double-coated tape which shows a well balanced behaviour on cohesion, adhesion and tack. It assures good workability on multiple substrates used in different applications. The tape combines in a wide range of operating temperatures an excellent repulsion resistance with a high adhesive strength especially on low surface energy substrates.

Application

Nitto 5015E is designed to make foams self-adhesive for a wide range of sealing applications. Especially when they are exposed to severe stress, as in automotive applications. The double-coated tape is used to bond graphic overlays, plastic plates and molds, surely if they have a low surface energy.

Features

- high repulsion resistance
- wide range of working temperatures
- high adhesion on difficult to adhere materials e.g. low surface energy
- adheres to a variety of foams & plastics
- recognition by imprint of the carrier

Technical Properties

General physical properties

		Test method
Adhesive type	Modified acrylic	
Tape thickness*	0.160 mm	NITTO 01B
Release liner type / colour	Siliconised white, PE laminated printed paper	
Release liner thickness / weight	0.100 mm - 120 g/m ²	NITTO 01G
Carrier type	Non-woven	
Unwind force	25 cN/50 mm	NITTO 35A
Release value	35 cN/50 mm	NITTO 36A
Adhesion to stainless steel	1200 cN/20 mm	NITTO 15A
Creep on BA-steel	1.5 mm	NITTO 62A
Shear	450 N/cm ²	NITTO 73A (BA steel)

* tape thickness = total tape thickness without liner

Performance properties

Adhesion	(test method NITTO 15A)					
	2B steel	PE	ABS	EC-1200	PET	PP
cN / 20 mm	1200	250	1100	700	900	900
Cohesion						
Hanging foam test	Min. 24h					
Heat resistance	175 °C					
WAPO	(test method NITTO 4084)					
PP	25 mm					
ABS	20 mm					
BA steel	6 mm					
Anti-repulsion	Angle 90°					Min. 72h

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 tape to 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.

Edition: August 2005
Code: DS/08.01/E4 5015E ENG

Nitto Europe NV has obtained following certificates:

