

Product: **5015P**

Product group: **Bonding & Joining**

General description

Nitto 5015P is a polyester based double-coated tape using a pressure sensitive modified acrylic adhesive, intended for use as a mounting tape on plastics and metals.

Construction



- Modified acrylic adhesive
- Carrier: Polyester 12 micron
- Modified acrylic adhesive
- Liner: white siliconised PE coated paper

Characteristics

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

The PET carrier in combination with the acrylic adhesive assures an easy repositioning of the tape and a resistance to stress.

Application

Nitto 5015P is a mounting tape for foam applications, which can be exposed to severe stresses. The tape can be used for a wide range of sealing applications but it is especially designed for use in the automotive and communications equipment industry. The tape is used to bond graphic overlays, plastic plates and molds, surely if they have a low surface energy.

Features

- wide range of working temperatures
- high resistance to stress
- well balanced behaviour on low surface energy substrates
- easy repositioning
- excellent ageing properties
- excellent repulsion resistance

Technical Properties

General physical properties

		Test method
Adhesive type	Modified acrylic	
Tape thickness*	0.100 mm	NITTO 01B
Release liner type / colour	Siliconised white PE coated paper	
Release liner thickness / weight	0.125 mm - 125 g/m ²	NITTO 01G
Carrier type	Polyester: 0.012 mm	
Unwind force	5 cN/50 mm	NITTO 35A
Release value	25 cN/50 mm	NITTO 36A
Adhesion to stainless steel	1200 cN/20 mm	NITTO 15A
Creep on BA-steel	0.5 mm	NITTO 62A
Shear	500 N/4cm ²	NITTO 73A (BA steel)

* tape thickness = total tape thickness without liner

Performance properties

Adhesion	(test method NITTO 15A)					
	2B steel	PC	PVC	PMMA	PET	PP
cN / 20 mm	1200	1450	1200	1450	1200	900
Cohesion						
Hanging foam test	4h					
Heat resistance	175 °C					
WAPO (test method NITTO 4084)						
PP	20 mm					
ABS	30 mm					
BA steel	4 mm					

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 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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