

Product: **509N**

Productgroup: **Bonding & Joining**

General description

Nitto repulpable double-coated tape 509N consists of a non-woven tissue carrier, saturated with a water-soluble pressure sensitive adhesive. This is an ideal product for manual splicing of most grades of paper.

Construction



Characteristics

With Nitto 509N, an easy and quick overlap splice can be performed due to the high initial tack and adhesion to different kinds of paper. The high heat resistance keeps the splice intact for all heat set processing. The tape resists humidity for a limited period of time, though it is designed to be water-soluble.

For storage, the tape is hermetically sealed in plastic bags, to maintain constant moisture content.

Nitto 509N passes repulpability test by TAPPI Method UM213.

Application

Nitto 509N is suitable for paper splicing operations with manual roll changes in paper- and printing industries. The product is advised to be used on all kind of supercalenders, re-reelers and sheeters.

Features

- high initial tack to different papers
- high adhesion on different papers
- high heat resistance
- repulpable according to TAPPI Method UM213

Technical Properties

General physical properties

		Test method
Adhesive type	Green repulpable acrylic	
Tape thickness*	0.100 mm	NITTO 01B
Release liner type / colour	Brown siliconised paper	
Release liner weight	95 g/m ²	
Carrier type	Non-woven	
Release value	20 cN/50 mm	NITTO 36A

* Tape thickness = Total thickness without liner

Performance properties

		Test method
Adhesion on coated kraft 300 g/m ²	940 cN/20 mm	NITTO 15B
Heat resistance	200 °C	
Repulpability (tape)	Excellent	NITTO 108A
Shear value	250 N/4cm ²	
Creep to stainless steel	0.5 mm	
Oozing (1.5T / 7 days)	2-3 papers attacked	

Application guidelines

- For optimum results, an even rub down pressure must be applied to the taped area to create the best possible adhesion between the tape and the web surface.
- Remove the liner prior to splicing.
- To obtain a "safety overlap splice", the splice area should be covered (top & bottom) by a non-siliconised single coated repulpable tape.

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:

