DOUBLE COATED TAPES

53820B

General description

Nitto 53820B is a high-performance double-coated tape featuring a black polyester carrier, coated on both sides with a modified acrylic adhesive. Engineered for versatile mounting applications, it provides reliable adhesion across a wide range of substrates. The black PET carrier offers light shielding properties, making it suitable for applications requiring light blocking.

Features

- Good adhesion to metal and plastics.
- Low fogging.
- Good lens push out.
- High holding power.
- High temperature resistance.
- Easy converting

Application

Nitto 53820B is used for mounting lenses onto mobile phones or for fixing plastic parts into electronic devices.

Properties

	Typical Value*	**Test Method**
Tape thickness **	0.200 mm	EN 1942
Adhesive type	Modified acrylic	n/a
Release liner type	Siliconized white paper (65g/m²)	n/a
Carrier type	Black PET (0.023mm)	n/a
Adhesion to BA steel	1600 cN/20mm	EN 1939/ ISO 29862
Adhesion to ABS	1450 cN/20mm	EN 1939/ ISO 29862
Adhesion to PP	1000 cN/20mm	EN 1939/ ISO 29862
Static shear	0.5 mm/3h	EN 1943
Saft test	185°C	+0.5°C, 20x15mm, 200g

*CAUTION: The above are typical values and should not be used in writing specifications.

*** Tape thickness = Total thickness without liner.*
Details of the test methods are described on the customer product specification.

Warranty

The product is guaranteed to be free from defects in material and workmanship at the time of delivery and will be suitable for use for a period of 12 months thereafter, subject to the conditions set out herein.

Availability

Width: 1050mm.
Lengths: 50m – 100m – 200m
Please contact us for specific dimensions.

Storage conditions

The product should be protected against direct sunlight and extremes in temperature and humidity. Recommended storage and transport conditions are between 15 °C and 30 °C and between 40% and 75% relative humidity. The product should be stored in its original packaging in a well-ventilated room to avoid deterioration, deformation, and contamination. Once removed from its packaging, it should be protected against dust and other impurities. Do not over stack the product, as this may cause deformation.

Application guidelines

- The tape should be applied to clean and dry surface by automatic mechanical means.
- The best lamination conditions are obtained at a temperature between 15°C and 40°C.
- An application pressure of 10-15N/cm² is recommended to apply the tape to the substrate to achieve a sufficient contact area.
- Keep the tape in its individual packaging until use.
- Remove the liner prior to final usage.
- The negative temperature resistance in a static load application is limited to -20°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 or at *askyourquestion@nitto.com.*

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, 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 willful 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. Nitto's liability is limited to the terms and conditions provided in the Product Specification and Nitto's General Terms and Conditions of Sale.

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.
The information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

Nitto Belgium NV has obtained the following certificates

- ISO 9001
- ISO 14001
- ISO 45001