

SURFACE PROTECTION TAPES

LENSGUARD 7568

General description

Nitto’s LENS GUARD 7568 is a cleanroom-manufactured single-coated adhesive tape used for the protection of hard-coated lenses of LCD displays used in electronic and communication devices during assembly, inspection, storage and transport. The tape consists of a special PET carrier coated with a pressure sensitive pure acrylic adhesive, laminated with a white PET release liner.

Features

- Cleanroom manufactured
- Excellent adhesion stability
- Converting and user-friendly

Application

Nitto’s LENS GUARD 7568 is specifically designed for the protection of hard-coated lenses used in LCD displays and camera modules. It adheres effectively to a wide range of treated and untreated plastic surfaces, including PMMA, PC, and others. The tape is ideal to protect high-gloss plastics, where its low-stretch, stiff PET carrier ensures an easy, clean, and precise lamination. Target applications include mobile phones, automotive displays, digital cameras, and various electronic devices.

Properties

	Typical value*	Test method
Film type	Clear PET (36µm)	n/a
Release liner type	White PET (52µm)	n/a
Release value	12 cN/50mm	Nitto test method
Adhesive type	Acrylic-based	n/a
Total thickness	66µm (without liner)	EN 1942
Adhesion to BA steel	45 cN/20mm	EN 1939
Weatherability to BA steel**	300h	ISO 4892-2

*CAUTION: The above are typical values and should not be used in writing specifications. Details from the test methods are described on the customer product specification.

**The weatherability is measured to BA steel. Depending on the substrate, the weatherability performance can be different.

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Warranty

The product is guaranteed to be free from defect 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

Widths: 50 to 1250 mm (trimmed) and 1285 mm (untrimmed)

Lengths: 250 and 500 m (trimmed) and 250 m (untrimmed)

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.

Lamination guidelines

- These tapes should be applied to clean and dry surface by automatic mechanical means.
- To avoid entrapped air-bubbles, excessive tension and shear, the customer should determine appropriate lamination conditions.
- The best lamination conditions are obtained at a temperature between 15 °C and 40 °C.

Application guidelines

- To ensure optimal performance and maintain product integrity, it is essential that LENS GUARD 7568 must be handled carefully throughout the conversion and lamination process.
- During peel-off from the liner and final lamination onto the lens, precautions must be taken to avoid impacts, scratches, and the inclusion of dust or impurities. Failure to follow these guidelines may result in irreversible damage, rendering the tape unsuitable for its intended application.
- For moulded and/or surface-treated lenses, it is important to make sure that no de-moulding agents or treatments can interfere with the tape's adhesion or performance.
- LENS GUARD 7568 is intended for temporary indoor protection only. The tape should be removed prior to device use to ensure full functionality and visual clarity of the protected surface.

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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