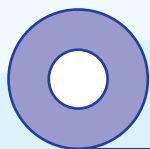


## LENSGUARD 7568

### General description

Nitto LENSQUARD 7568 is a clean room manufactured single coated adhesive tape used for the protection of high gloss LCD display hard lenses for electronic and communication devices during assembly, inspection, storage and transport. The tape consist of a special PET carrier coated with a pressure sensitive pure acrylic adhesive, laminated with a white PET release liner.

### Construction



- Clear PET carrier
- Pure acrylic pressure sensitive adhesive
- Separator: white PET release liner

### Characteristics

The clean room manufacturing of LENSQUARD 7568 reduces the risk of entrapped dust and impurities between tape and liner.

#### Characteristics - Converter

- Tape on liner: No risk to select wrong liner (perfect balance between adhesion and release values), No dust and impurities inclusion, Perfect waste removal, Excellent die cut properties
- Printable carrier\*: Possible added value for his end-user, Allows die cut and positioning dot printing
- Clear PET carrier: Excellent die cut properties, dimension stable
- Pure PSA: Allows clean die cut process (limited adhesive residues on rotary or flat bed tools)

#### Characteristics - Partmaker

- Tape on liner: Perfect shoot out (pick & place), Possible detection by contrast, Regular die cuts distribution process
- Printable carrier\*: Possible added value for his end-user
- Clear PET carrier: Lens control through LENSQUARD
- Pure PSA: Excellent release from liner, suitable for treated (hard coat) and untreated lenses. Instant wettability on the lenses, excellent aging properties

#### Characteristics - OEM

- Printable carrier\*: Customized lens layout (color printing), can be used as advertising and information media
- Clear PET carrier: Final display control through LENSQUARD
- Pure PSA: Final display control by LENSQUARD, no adhesive residue when peeled-off by end user.

\* Customer should check the compatibility between the carrier, ink and printing process.

### Application

Nitto LENSQUARD 7568 is ideal to protect hard lenses for LCD displays and camera in a wide variety of treated and untreated plastics such as PMMA, PC, ... Furthermore LENSQUARD 7568 can be used for the protection of high gloss plastics where a minimal stretch due to carrier stiffness contributes to an easy and clean manual lamination.

Markets: mobile phones, automotive, digital cameras, electronic devices ...

## CORE FUNCTION



TO PROTECT

### Features

- clean room manufactured
- hard lens protection tape
- excellent adhesion stability
- converting & user friendly
- recyclable



Edition: January 2019  
Code: DS/12.07/LENSQUARD ENG  
This datasheet replaces all previous versions



Properties

	Typical Value	Test Method
Carrier type	Clear PET (0.036 mm)	
Release liner type	White PET (0.052 mm)	
Release value	12 cN/50mm	Nitto test method
Adhesive type	Acrylic-based	
Total Thickness	0.066 mm (without liner)	EN 1942
Adhesion on BA steel	45 cN/20 mm	EN 1939
Weatherability on BA steel*	300 h	ISO 4892-2
Transport and storage conditions	Temperature 15 to 30 °C Relative humidity 40 to 75% RH	

Details from the test methods are described on the customer product specification.  
 CAUTION: The above are typical values and should not be used in writing specifications.  
 \* Only clear LENSQUARD version allows visual inspection of the lens & display through the tape.  
 \*\* The weatherability is measured on BA steel. Depending on the substrate the weatherability performance can be different.

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

	Width (mm)		Length (m)	
	Trimmed	Untrimmed*	Trimmed	Untrimmed
Clear	50 to 1250	1285	250 and 500	250

\* Film width (including dry edge)  
 Please contact us for specific dimensions

General guidelines

Precautions must be taken when LENSQUARD is converted and laminated (peel-off from liner and final lamination on the lens) to avoid damages such as: impacts and scratches on the tape surface, dust and impurity inclusions. The non-respect of this guideline will result in non-reversible damages leaving LENSQUARD unsuitable for its intended application.

Lamination guidelines

- The tape should be applied to clean and dry surface by automatic mechanical means.
- In order to avoid entrapped air-bubbles, the customer should determine appropriate lamination conditions.
- Best practice lamination conditions are obtained at room temperature between 15 °C and 30 °C. Temperature operating range is -40 to +80 °C.
- Best practice lamination pressure should be minimum 1 kg/cm<sup>2</sup> for 2 seconds (maximum acceptable pressure depends on the application equipment, the nature and the design of the substrate).

Application guidelines

- In case of moulded and/or treated lenses, make sure nor the de-moulding agent nor treatments affect the performance of the tape (e.g. silicones).
- LENSQUARD 7568 is designed for inside use.
- Surface protection tapes are not meant for permanent protection, they should be removed before using the protected device.

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 wilful 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.

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 following certificates:

- ISO 9001
  - ISO 14001
  - IATF 16949
- Please check our website for applicable scope

If you require additional information on technical properties and application as well as product sampling or testing, please contact your local Nitto sales office.

Edition: January 2019  
 Code: DS/12.07/ LENSQUARD ENG  
 This datasheet replaces all previous versions

