General description
Nitto LENSGUARD 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 LENSGUARD 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 LENSGUARD
- 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 LENSGUARD
- Pure PSA: Final display control by LENSGUARD, no adhesive residue when peeled-off by end user.
* Customer should check the compatibility between the carrier, ink and printing process.

Application
Nitto LENSGUARD 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 LENSGUARD 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 …

Edition: January 2019
Code: DS/12.07/LENSGUARD ENG
This datasheet replaces all previous versions
SURFACE PROTECTION TAPES

LENSGUARD 7568

Properties

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

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 LENSGUARD 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

<table>
<thead>
<tr>
<th>Availability</th>
<th>Width (mm)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trimmed</td>
<td>Untrimmed*</td>
</tr>
<tr>
<td>Clear</td>
<td>50 to 1250</td>
<td>1250</td>
</tr>
<tr>
<td></td>
<td>1285</td>
<td></td>
</tr>
</tbody>
</table>

* Film width (including dry edge)

Please contact us for specific dimensions

General guidelines

Precautions must be taken when LENSGUARD 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 LENSGUARD 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/cm² 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).
- LENSGUARD 7568 is designed for inside use.
- Surface protection tapes are not meant for permanent protection, they should be removed before using the protected device.

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

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