Nitto Denko E-MASK R Series is a series of surface protection materials for optical parts. With unique adhesive synthetic technology, it is suitable for surface protection of LCD polarizing film, hard coat or non-glare acrylic plates, polycarbonate plates and polyester films during transportation and processing.

Structure

![Diagram of E-MASK R Series structure]

- Acrylic pressure sensitive adhesive
- Polyethylene film

Features

- Changes in adhesive strength after lamination are extremely small, ensuring easy peeling
- Polyethylene film with excellent transparency for carrier shows surface of the substrate without removing the tape
- Tape is pressure sensitive and easily applied with a laminator

Applications

Surface protection for optical film, such as polarizing film (e.g. during LCD shipping)
# PRODUCTS DATA SHEET

## Standard sizes/colors

<table>
<thead>
<tr>
<th>Item</th>
<th>Thickness (mm)</th>
<th>Width (mm)</th>
<th>Length (m)</th>
<th>Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-MASK R-100</td>
<td>0.065</td>
<td>1250</td>
<td>200</td>
<td>Clear/LB</td>
</tr>
<tr>
<td>E-MASK R-200</td>
<td>0.065</td>
<td>1250</td>
<td>200</td>
<td>Clear</td>
</tr>
<tr>
<td>E-MASK R-300</td>
<td>0.070</td>
<td>1250</td>
<td>200</td>
<td>Clear</td>
</tr>
<tr>
<td>E-MASK R-50EP</td>
<td>0.060</td>
<td>1250</td>
<td>200</td>
<td>Clear</td>
</tr>
</tbody>
</table>

*Contact us for information concerning sizes other than the above.*

## General properties

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>E-MASK R-100</th>
<th>E-MASK R-200</th>
<th>E-MASK R-300</th>
<th>E-MASK R-50EP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>mm</td>
<td>0.065</td>
<td>0.065</td>
<td>0.070</td>
<td>0.060</td>
</tr>
<tr>
<td>Adhesive strength</td>
<td>N/20mm</td>
<td>0.30</td>
<td>0.50</td>
<td>0.80</td>
<td>0.10</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>N/20mm</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Elongation</td>
<td>%</td>
<td>180</td>
<td>180</td>
<td>180</td>
<td>180</td>
</tr>
</tbody>
</table>

*Test method

1: Nominal thickness
2: Based on JIS Z-0237
   - Adherent: Acrylic plate, Tensile speed: 300mm/min, Peeling angle: 180°
3: Based on JIS Z-0237*
Precautions

- Store at normal temperature/humidity. Do not expose to direct sunlight.
- Do not suddenly put on the brake more than necessary when applying the film. It could cause the edges of the film to be detached.
- Be sure to remove oil and grease from the substrate before applying the film. Failure to do so could result in contamination of the substrate.
- In case of harsh processing conditions, be sure to conduct a test before attempting to use.
- In case that painting, plating, etching, bonding, and any other chemical treatments are implemented on substrate surface after removing the product, unexpected results could occur due to a small amount of chemical substances transferred from the product. Please be sure to perform a test under the actual use condition prior to use.
- When applying a surface protective film to a painted plate, a peeling may become heavy or the paint may come off depending on the lacquered conditions. Review carefully before applying.
- With alumite-treated substrates, the peeling characteristics of a surface protection film may vary depending on the treatment conditions. Review carefully before applying.
- Please consult our sales staff before applying a surface protection film to natural materials such as marble and wood.
- When coating after the surface protective material has been peeled, products should be used upon giving sufficient consideration to surface washing, below-surface processing and sintering conditions and confirming the adhesiveness of the coating.

- The data sheet contains measurement values for the product under certain conditions. The values are not guaranteed.
- Quality, performance and function differ according to the conditions under which the product is used. For details, contact the department in charge of the product in question.
- Results other than the values given here may be obtained depending on how the product is used. Customers should perform the test yourself in order to use the product more properly and safely.
- The product and product specifications are subject to change without notification.
- Nitto Denko owns the right to any intellectual property contained herein. We ask that you contact the department in charge of the product in question prior to using the products data sheet for any purpose other than the purpose intended. The products data sheet may not be copied or transferred without permission of Nitto Denko.