3 Privacy Filter ALCF-P ABR0 Specifications

Description
This document provides customer specifications for Advanced Light Control Film ALCF-P ABR0.

Applications
ALCF-P ABR0 is a microreplicated film that controls the amount of light that passes through the film at high angles. At small angles, close to perpendicular to the surface of the privacy filter, the majority of the incident light is transmitted through the privacy filter. At angles outside of the 60 degree viewing angle, light is absorbed by the black louvers providing the user with privacy.

Material
Outer Substrates: Non-Hardcoated Gloss Polycarbonate
Louver Layer: Acrylic Resin and Carbon Black

Typical Properties

<table>
<thead>
<tr>
<th>Property (Test Method)</th>
<th>Typical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viewing Angle</td>
<td>60° ± 4°</td>
</tr>
<tr>
<td>Louver Angle</td>
<td>0° ± 2°</td>
</tr>
<tr>
<td>Nominal thickness</td>
<td>0.53 ± 0.08 mm</td>
</tr>
<tr>
<td>Cold resistance</td>
<td>-40°C, 500 hours</td>
</tr>
<tr>
<td>Heat resistance</td>
<td>85°C, 500 hours</td>
</tr>
<tr>
<td>Humidity resistance</td>
<td>65°C, 95% relative humidity, 500 hours</td>
</tr>
<tr>
<td>Thermal shock resistance</td>
<td>-40° to 85° C for 100 total cycles at 1 hour per cycle</td>
</tr>
<tr>
<td>Color Change</td>
<td>Delta E 2.0</td>
</tr>
</tbody>
</table>

Viewing Angle Definition
• Viewing Angle – The sum of the angles (θ and φ), measured from the angle of maximum transmission, at which only 5% of the maximum transmission is transmitted through the film.

Preliminary Technical Data Sheet
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Protective Liners   ALCF-P ABR0 Privacy Filter kits have protective liners on both sides of the glossy privacy film to protect during shipping, handling, or laminating.

Availability   For availability, please contact our customer service group at 1-800-553-9215 or visit our website at 3mprivacyfilter.com

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