Excellent EMI shielding around LCDs and other apertures
- ITO (Indium Tin Oxide) conductive film with great optical transparency
- Protected by removable PET film on both surfaces for easy transport
- Grounding with soft conductive fabric tape is recommended to protect ITO
- Low surface resistance for EMI shielding

Cross-section view

WINAL75-080
- Removable surface protection film (green)
- ITO layer
- PET film (75um)
- Removable surface protection film (clear)

WINAL100-020
- Removable surface protection film (green)
- Conductive layer
- PET film (100um)
- Removable surface protection film (clear)

WINAL50-005
- Removable surface protection film (clear)
- Conductive layer
- PET film (50um)
- Hard coating layer
- Removable surface protection film (clear)

Specification

<table>
<thead>
<tr>
<th>Part Number</th>
<th>WINAL75-080</th>
<th>WINAL100-020</th>
<th>WINAL50-005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness (µm)</td>
<td>75</td>
<td>100</td>
<td>50</td>
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<tr>
<td>Standard Sheet Size (mm)</td>
<td>420 x 600</td>
<td>210 x 297</td>
<td>—</td>
</tr>
<tr>
<td>Shielding Effectiveness (dB/1GHz)</td>
<td>10</td>
<td>22</td>
<td>30</td>
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<tr>
<td>Total Light Transmittance (%)</td>
<td>76</td>
<td>76</td>
<td>80</td>
</tr>
<tr>
<td>Surface Resistance (G/Ø)</td>
<td>80</td>
<td>20</td>
<td>5</td>
</tr>
<tr>
<td>Flame Retardancy (UL94)</td>
<td>VTM-2 equivalent</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>-30°-80°</td>
<td>-30°-80°</td>
<td>-30°-80°</td>
</tr>
</tbody>
</table>

Characteristics

MID-STD-285 Measurement (Electric Field)

- Addition of conductive fabric tape layer
- Custom die cutting
- Hole punching

Please request for detailed product specification data prior to purchase

Volume resistivity stated on our EMI absorber flyer is meant for noise control parameters, whereas the absorber is considered a conductor, but not for insulation performance. Care should be taken when using absorbers. KITAGAWA INDUSTRIES America, Inc. makes no guarantees as to electrical resistivity values and accepts no liability due to short circuits where EMI absorbers are used directly on a PCB Board or areas near high voltage such as for power. The products are designed for EMI noise reduction for electronics. This is not recommended for applications involving human life or extremely high accuracy. Prior to using the products in production, please verify their performance or adhesive strengths of PSA for long term use. Avoid applying any external stress such as bending or high amounts of tension. Note that the absorber products are cut, bent, or pulled, there may be a possibility of creating cracks. For storage, keep products in a cool, dry, well-ventilated area at room temperature and avoid high temperatures, humidity, and direct sunlight.

Please contact the sales department at KITAGAWA INDUSTRIES America, Inc. for the use of our products prior to selecting the parts for your application.