Anti-reflective and Easy-to-Clean Technology

Product Information

Benefits

- Eliminates surface reflections from external light sources by > 80%
- Improves the display contrast and color gamut by reducing reflections from the top of the surface
- Aids in the removal of oil, dirt, and other smudges
- Improves the tactile qualities of the touch screen

Easy-to-Clean Technology

- Unique oleophobic and hydrophobic surface properties allow the easy removal of everyday oils and smudges
- Surface properties remain effective after exposure to everyday liquids

Applications

- Laptops
- Tablets
- Convertible Notebooks

Reduces Front-Surface Reflections by > 80%

Chemical and Environmental

<table>
<thead>
<tr>
<th>Test</th>
<th>Before (Water Contact Angle)</th>
<th>After (Water Contact Angle)</th>
</tr>
</thead>
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<tr>
<td>Thermal Cycle (900 hr)</td>
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<td>Thermal Cycle (72 hr)</td>
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<td>Thermal Shock (72 hr)</td>
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<td>Salt Spray (2000 hr)</td>
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<td>Synthetic Sweat (120 hr)</td>
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<td>High pH Solution (72 hr)</td>
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</table>

After extreme exposure to sweat, salt spray, high temperatures, and humidity cycles, Corning’s Anti-reflective and Easy-to-Clean Technology demonstrates high optical transmission, low haze, and high hydrophobicity.

Front-Surface Reflections

- AR/ETC-Coated Corning Gorilla Glass
- Untreated Glass

Wavelength (nm) Front-Surface Reflection (%)
450 - 650 < 0.65
Antireflective and Easy-to-Clean Technology Enhances Contrast Ratio in Outdoor Ambient Conditions

Corning’s Antireflective and Easy-to-Clean Technology readily increases the Contrast Ratio* of common displays in ambient outdoor lighting conditions (e.g. partially sunny day or overcast day).

* Display Luminance: ~ 500 cd/m²
Ambient Conditions: 5000 cd/m²
Surface Reflections: 0.65% - 4%
Internal Reflections: 2%, 4%, or 8%

Reference: NISTIR 6738, 2001

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