**VINYL IS THE SECOND MOST PRODUCED THERMOPLASTIC IN THE WORLD**

Vinyl’s affordability and exceptional inherent properties have created a global demand that continues to grow.

Source: IHS Chemical

**LOWER GREENHOUSE GAS EMISSIONS DURING PRODUCTION**

Parts manufactured with polymers have a lower carbon footprint throughout the supply chain vs. metals.

Source: Hammond and Jones, Inventory of Carbon & Energy (ICE) Version 2.0, University of Bath, 2011

**LOWER HYDROCARBON CONTENT – STABLE AND AFFORDABLE**

Only 43% of vinyl feedstocks are drawn from oil or natural gas, while 57% comes from common salt, reducing dependency on hydrocarbons.

Source: U.S. Energy Information Administration
Property Retention of Polymers After Exposure to Disinfectants

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<tr>
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<th>T-Spray™ (quaternary ammonium)</th>
<th>CavidCide® (Isopropanol)</th>
<th>Cidex Plus® (Glutaraldehyde)</th>
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<tbody>
<tr>
<td>Acceptable 90-100%</td>
<td>Resilience™</td>
<td>Resilience™</td>
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<tr>
<td>Marginal 50-90%</td>
<td>PC+PBT</td>
<td>PC+PBT</td>
<td>PC+PBT</td>
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<tr>
<td>Poor &lt;50%</td>
<td>ABS</td>
<td>PC+ABS</td>
<td>PC+PET</td>
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<tr>
<td>Cracked</td>
<td>PC+ABS</td>
<td>PC+PET</td>
<td>PC+PET</td>
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EXCELLENT CHEMICAL RESISTANCE
Resilience™ LS stands up to even the strongest chemical disinfectants without cracking or failing.

Luminaire Failure Modes

CRITICAL PROTECTION FOR LED LUMINAIRES
Housing failure is a significant contributor to the degradation of outdoor luminaires. Resilience™ LS can provide superior protection and help extend useful life of LED luminaires.

Source: U.S. DOE Solid State Lighting Technology Fact Sheet, August 2013

Color Change after 300 hrs of UV Exposure

UL 94 5VA Rating

Material Density Comparison

GOOD WEATHERING PERFORMANCE
Even in dark colors and varied climates, Resilience™ LS demonstrates excellent color hold performance.

INHERENT FLAME RESISTANCE
Resilience™ LS can meet UL 94 5VA requirements at roughly half the thickness of competing materials without FR additives.

SIGNIFICANT WEIGHT REDUCTION
Weight reduction can help reduce freight, labor, support and material consumption costs.