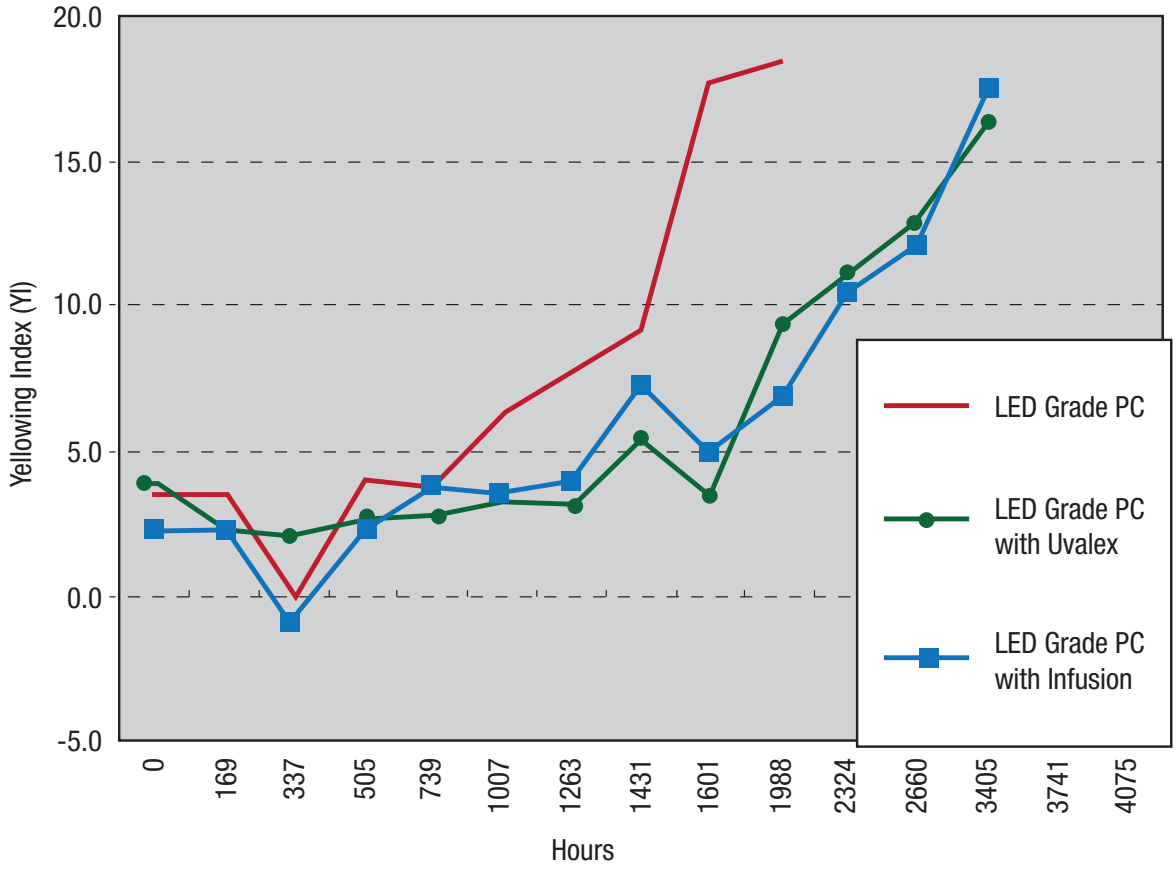
UVALEX® Coating from ALP Improves UV Stability, Lengthens Part Life

Uvalex® is a proprietary UV protective coating system from ALP. Used almost exclusively on polycarbonate (PC) or PC copolymers, it lengthens the time for a clear part to reach a given yellowness index (YI) by .15-3 times, depending on the conditions and substrate.

Uvalex is applied via manual or automated spray equipment to achieve a minimum of .15 mils coating thickness. Over time, this ablative coating is consumed, and UV will begin attacking the substrate. While actual field conditions dramatically change the expected lifetime, Uvalex consistently extends life versus unprotected material.

With the advent of LEDs, there is little or no UV impacting the inside surface. Uvalex is most economically specified then as an outside surface coating only.

The chart below shows unprotected PC in red, Uvalex protected PC in green and Infusion protected PC in teal when tested at 90°C ambient. Note that the performance of Uvalex and UV infusion is substantially similar. When coated on one side, Uvalex is typically less costly than UV Infusion.



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