



» PRODUCT BULLETIN

Cesa™ Light Additives for Injection Molded Applications

Sunlight in combination with heat and oxygen can induce degradation in plastics, causing detrimental effects on mechanical, optical, and other physical properties. This can result in breakage, chalking and discoloration of the final product.

Cesa™ Light Additives for injection molded applications contain high additive loading to provide efficient protection against photochemical degradation. They are suitable for a large range of thermoplastics subjected to long-time exposure to sunlight. The additive concentrates can be customized to include colors and/or other additives, e.g., flame retardants, antistatic or laser marking additives. Compliance with specific regulatory requirements such as EU/US food contact, toy or UL 94 flammability classes is also available on request.

BENEFITS

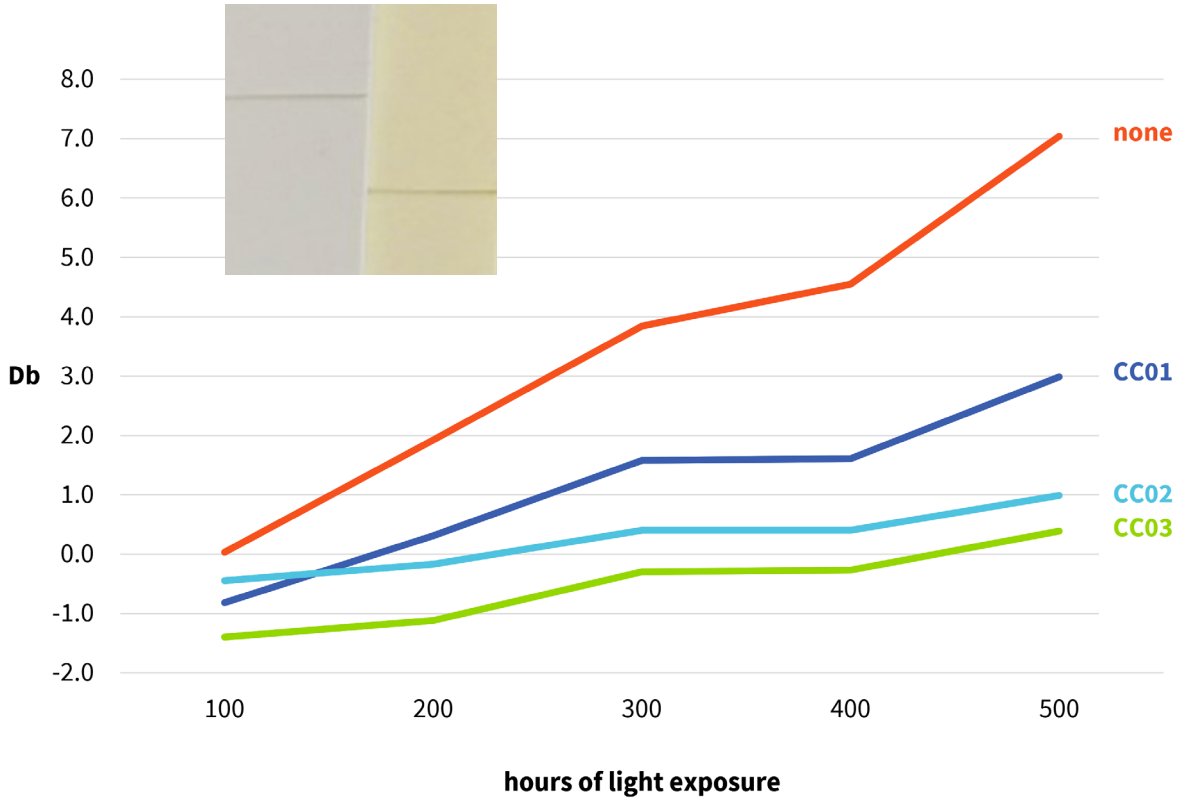
- High additive loading for optimal UV stabilization
- Solutions available for a large number of injection molded polymers including PP, PE, PS, HIPS, ABS, SAN, PA (nylon), PBT, Co-PET, PC, POM and TPU
- Can be combined with colors and other additives in Smartbatch™ solutions
- Formulations can be customized to meet specific regulatory compliance, e.g., EU and US food contact, toy, UL 94 recognition



PERFORMANCE

The following chart shows the efficiency of Cesa Light Additives in minimizing color variations induced by long sunlight exposure. The white ABS plastic samples, produced with and without Cesa Light Additives, were exposed to simulated sunlight

conditions using the weathering test ISO 4892-2:2013. Samples containing Cesa Light Additives (CC01, CC02, CC03) showed limited Delta b (Db) variations, while the non-UV stabilized sample showed a high Db variation and visual yellowing.



*Source: Avient internal testing

1.844.4AVIENT
www.avient.com



Copyright © 2023, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.